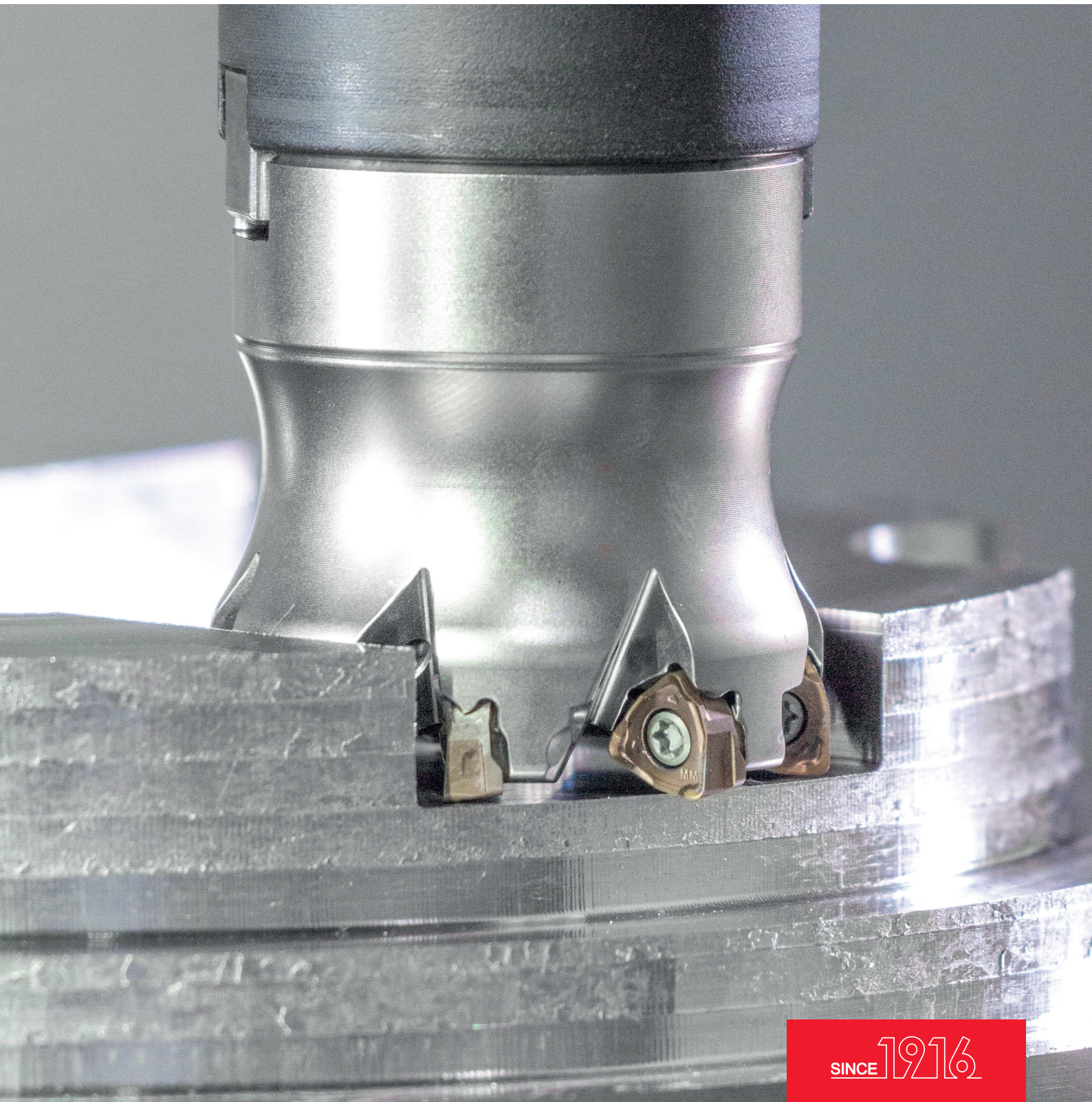
49490 | 49590

HEXAPLUS

Double-sided shoulder milling for higher productivity

MILLING

Facing | Shouldering



SINCE 1916

HEXAPLUS 49490 | 49590

Discover the **HEXAPLUS** line, a next-generation milling solution developed to meet the evolving demands of modern manufacturing. Engineered for precision, durability, and cost-efficiency, Hexaplus combines advanced insert geometry with robust cutter design to deliver high performance across a wide range of milling operations. It offers an ideal balance between productivity and reliability.

KEY BENEFITS :

- **90° Walls:** Engineered for true 90° shoulder milling and efficient face milling, reducing the need for secondary operations
- **Competive Cost per Edge:** Double-sided trigon geometry delivers multiple cutting edges per insert, maximizing tool life and minimizing cost per edge
- **Two Sizes, Three Geometries:** Available in two insert sizes: WNXT 08 for larger diameters, and WNXT 04 / WOXT 04 for smaller diameters—offering flexibility across a range of machining needs
- **Rigid Clamping System:** Wide contact surfaces and strong clamping screws ensure high stability
- **Unequal Tooth Spacing:** Advanced pitch design minimizes harmonic vibrations, enhancing surface finish and extending tool life
- **Optimized Chipbreaker & Wiper Edge:** Provides excellent chip control and smooth cutting action, resulting in superior surface finishes and efficient material removal

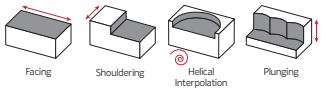
OPERATIONS:


Facing


Shouldering


Helical Interpolation


Plunging



The new **HEXAPLUS 49490** represents a significant upgrade in the Hexaplus line, offering not only the benefits of a smaller size but also introducing a new geometry called **WOXT**.
This innovative design delivers capabilities that are entirely different from the previous **WNXT** geometry, significantly enhancing performance and functionality.
The combination of compactness and advanced structure makes the **HEXAPLUS 49490** a versatile and powerful choice for shoulder milling applications.

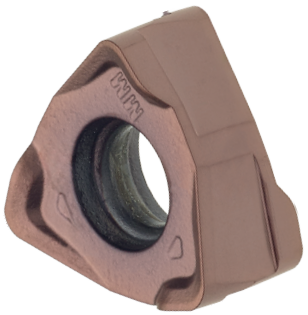
The positive **WOXT** insert design features an optimized chip breaker with a wiper edge that creates a gentler point of contact and significantly reduces the contact area, thereby lowering cutting forces. This allows the **WOXT** to deliver smooth cutting action and a fine surface finish.
Despite its positive angles, the **WOXT**'s advanced geometry is engineered to provide the strength and durability typically associated with negative inserts.

With its revolutionary **WOXT** geometry, the **HEXAPLUS 49490** sets a new standard in stainless steel and superalloy machining, delivering precise cutting, superior surface quality, and exceptional tool durability.

HEXAPLUS 49490 | 49590

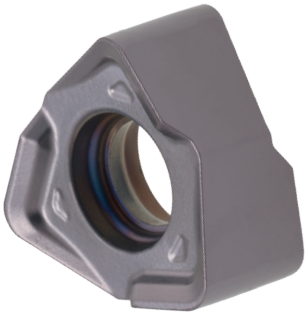
WOXT-MM M S

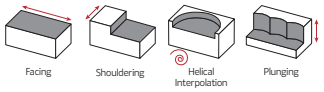
- Positive flank angles with negative geometry
- Optimized wiper edge for smoother operation and high-quality surface finish
- Double edge geometry to enhance cost-efficiency
- Extensive chipbreaker for effective chip control
- Available only in smaller size 04
- -MM chipbreaker with higher positivity, suitable for stainless steel, superalloys, as well as steel and cast iron applications



WNXT-MP P K

- Robust cutting edges for demanding operations
- Optimized wiper edge for smoother operation and high-quality surface finish
- Double edge geometry to enhance cost-efficiency
- High rake angle for smooth cuts
- Available in two sizes: 04 and 08
- -MP chipbreaker for steel and cast iron applications





Toolholders Compatibility

Both WOXT 04 and WNXT 04 inserts

Optimized Pocket Design

Engineered for a precise fit for both insert geometries

Stable and Strong Campling

A 3-area support system and robust clamping screws

Streamlined Holder Design

Improved chip evacuation in deep applications

Through Coolant System

Improved chip flow and longer tool life

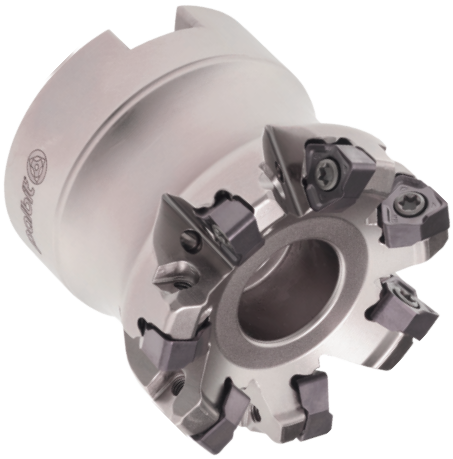
Different Pitches

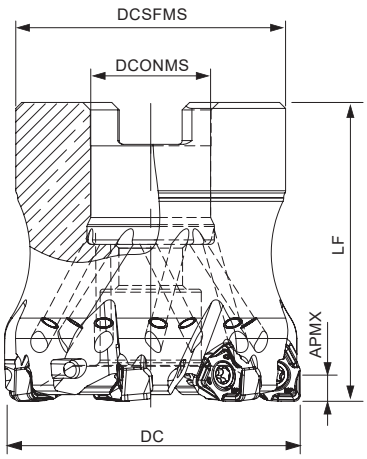
Available in coarse and normal pitches

Multiple Coupling Types

Available with arbor mounting, weldon shank, and threaded coupling

NEW HEXAPLUS 49490



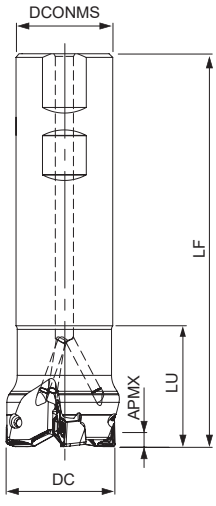


Arbor Mounting

KAPR=90° | GAMP=-5°

Order code Código	Reference Referência Referencia	CICT	Dimensions | Dimensões | Dimensiones (mm)				WT	Specifications		Insert Pastilha Inserto	Stock
			DC	DCONMS	DCSFMS	LF		Arbor Type	APMX (mm)		
181192200	032A49490-06-05-016040	6	32	16	30	40	0,124	A	3,5	WNXT 04 | WOXT 04	◎
181192300	040A49490-07-05-016040	7	40	16	36	40	0,204	A	3,5	WNXT 04 | WOXT 04	◎
181192400	050A49490-08-05-022040	8	50	22	42	40	0,285	A	3,5	WNXT 04 | WOXT 04	◎
181192500	050A49490-09-05-022040	9	50	22	42	40	0,280	A	3,5	WNXT 04 | WOXT 04	◎
181192600	063A49490-10-05-022040	10	63	22	48	40	0,555	A	3,5	WNXT 04 | WOXT 04	◎

◎ Stock item | Produto de stock | Itens de stock ○ Available under request | Disponível sobre consulta | Disponible bajo consulta



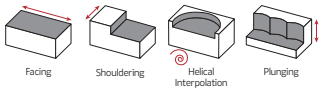
Weldon Shank

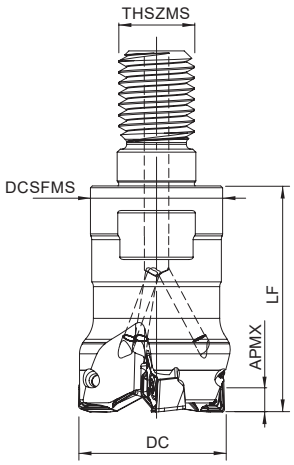
KAPR=90° | GAMP=-5°

Order code Código	Reference Referência Referencia	CICT	Dimensions | Dimensões | Dimensiones (mm)				WT	Specifications	Insert Pastilha Inserto	Stock
			DC	DCONMS	LF	LU		APMX (mm)		
181218900	020W49490-03-05-020090	3	20	20	90	29	0,310	3,5	WNXT 04 | WOXT 04	◎
181219000	025W49490-04-05-025100	4	25	20	100	29	0,565	3,5	WNXT 04 | WOXT 04	◎
181219100	025W49490-05-05-025170	5	25	20	100	29	0,591	3,5	WNXT 04 | WOXT 04	◎
181193600	032W49490-05-05-032110	5	32	32	110	31	1,185	3,5	WNXT 04 | WOXT 04	○
181193700	032W49490-06-05-032110	6	32	32	110	31	1,132	3,5	WNXT 04 | WOXT 04	○

◎ Stock item | Produto de stock | Itens de stock ○ Available under request | Disponível sobre consulta | Disponible bajo consulta

HEXAPLUS 49490
WNXT 04 | WOXT 04





Threaded Coupling

KAPR=90° | GAMP=-5°

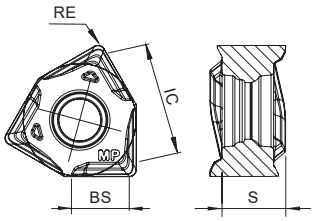
Order code Código	Reference Referência Referencia	CICT	Dimensions | Dimensões | Dimensiones (mm)				WT	Specifications	Insert Pastilha Inserto	Stock
			DC	THSZMS	DCSFMS	LF		APMX (mm)		
181192700	018R49490-02-05-M10028	2	18	M10	18,3	28	0,050	3,5	WNXT 04 | WOXT 04	○
181192800	020R49490-03-05-M10028	3	20	M10	18,3	28	0,045	3,5	WNXT 04 | WOXT 04	○
181192900	025R49490-04-05-M12030	4	25	M12	23	30	0,078	3,5	WNXT 04 | WOXT 04	○
181193000	025R49490-05-05-M12030	5	25	M12	23	30	0,070	3,5	WNXT 04 | WOXT 04	◈
181193100	032R49490-05-05-M16040	5	32	M16	30	40	0,160	3,5	WNXT 04 | WOXT 04	◈
181193200	032R49490-06-05-M16040	6	32	M16	30	40	0,150	3,5	WNXT 04 | WOXT 04	○

◈ Stock item | Produto de stock | Itens de stock ○ Available under request | Disponível sobre consulta | Disponible bajo consulta

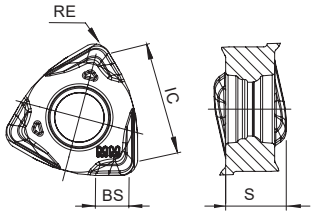
W..XT 0403... Inserts | Pastilhas | Plaquitas

WNXT-MP

WOXT-MM



WNXT



WOXT

		P		M			K	S		Dimensions Dimensões Dimensiones (mm)			
		PVD		PVD			PVD	PVD					
	(2) Grade code	T1	P4	P4	X9	4H	T1	X9	4H				
(1) Geometry code	ISO Reference	PHP920	PHP930	PHP930	PHH930	PHF530	PHP920	PHH930	PHF530	IC	S	RE	BS
1113158	WNXT 040308 PNSR-MP	◈	◈				◈			6,70	3,36	0,80	1,80
1113494	WOXT 040308 PNSR-MM	◈	◈	◈	◈	◈	◈	◈	◈	6,70	3,36	0,80	0,80

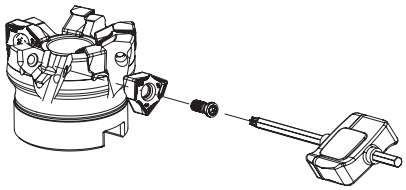
◈ First choice | Primeira opção | 1ª opción ◈ Stock item | Produto de stock | Itens de stock ○ Available under request | Disponível sobre consulta Disponible bajo consulta

Insert order code = (1) Geometry Code + (2) Grade Code

SPARE PARTS Acessórios | Repuestos

Order separately

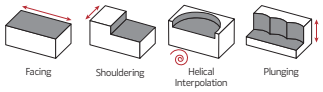
Cutter DC	Insert Screw	Key (Torx)	Key (Torx - Nm)	Torque Value
A49490 - 32-63	P0250503	XT08	DT0812	1,20
W49490 - 20-32	P0250503	XT08	DT0812	1,20
R49490 - 18-32	P0250503	XT08	DT0812	1,20



GRADES SELECTION GUIDE Guia para selecção de graus | Tabla para selección de calidades

ISO	PSM	Material	HB (Brinell)	Grades ← Wear Resistance — Toughness → PHP920	PHP930	PHH930	PHF530
P	1	Unalloyed Steel	125-220	✓	✓		
	2	Low-Alloyed Steel	220-280	✓	✓		
	3	High-Alloyed Steel	280-380	✓	✓		
M	4	SS - Ferritic / Martensitic	200-330		✓	✓	✓
	5	SS - Austenitic	200-330		✓	✓	✓
	6	SS - Austenitic-ferritic (Duplex)	220-260		✓	✓	✓
K	7	Malleable Cast Iron	130-230	✓			
	8	Grey Cast Iron	180-245	✓			
	9	Nodular Cast iron	160-250	✓			
S	11	Heat Resistant Super Alloys	200-320			✓	✓

Good Conditions Average Conditions Difficult Conditions



RECOMMENDED CUTTING CONDITIONS Condições de corte recomendadas | Condiciones de corte recomendables

ISO	PSM	Material	HB (Brinell)	Vc (m/min) ← Wear Resistance Toughness →				Feed fz (mm/t)	
				PHP920	PHP930	PHH930	PHF530	WNXT 04	WOXT 04
P	1	Unalloyed Steel	125-220	180-250	160-230	-	-	0,08-0,25	0,05-0,25
	2	Low-Alloyed Steel	220-280	170-210	150-190	-	-	0,08-0,25	0,05-0,25
	3	High-Alloyed Steel	280-380	160-200	140-180	-	-	0,08-0,20	0,05-0,20
M	4	SS - Ferritic / Martensitic	200-330	-	130-170	140-210	140-250	-	0,05-0,20
	5	SS - Austenitic	200-330	-	100-160	120-170	130-240	-	0,05-0,20
	6	SS - Austenitic-ferritic (Duplex)	220-260	-	80-140	100-150	120-220	-	0,05-0,15
K	7	Malleable Cast Iron	130-230	170-300	-	-	-	0,08-0,25	0,05-0,25
	8	Grey Cast Iron	180-245	150-250	-	-	-	0,08-0,25	0,05-0,25
	9	Nodular Cast iron	160-250	90-210	-	-	-	0,08-0,20	0,05-0,20
S	11	Heat Resistant Super Alloys	200-320	-	-	30-110	30-150	-	0,05-0,15

CHIP BREAKER SELECTION GUIDE Guia para aplicações do quebra-aparas | Guía para aplicación del rompevirutas

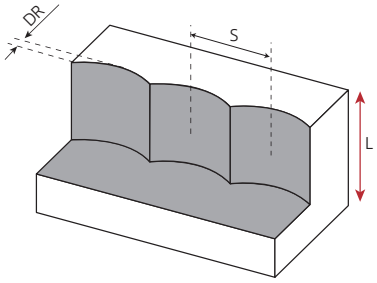
ISO	PSM	Material	HB (Brinell)	Chip breaker application
				1st choice
P	1	Unalloyed Steel	125-220	WNXT 04... -MP
	2	Low-Alloyed Steel	220-280	WNXT 04... -MP
	3	High-Alloyed Steel	280-380	WNXT 04... -MP
M	4	SS - Ferritic / Martensitic	200-330	WOXT 04.. -MM
	5	SS - Austenitic	200-330	WOXT 04.. -MM
	6	SS - Austenitic-ferritic (Duplex)	230-260	WOXT 04.. -MM
K	7	Malleable Cast Iron	130-230	WNXT 04... -MP
	8	Grey Cast Iron	180-245	WNXT 04... -MP
	9	Nodular Cast iron	160-250	WNXT 04... -MP
S	11	Heat Resistant Super Alloys	200-320	WOXT 04.. -MM

PROGRAMMING DATA Dados para programação | Datos para la programación

Insert	Programming Data		
	Insert radius (mm)	Wiper edge (mm)	APMX (mm)
WNXT 040308 PNSR-MP	0,8	1,8	3,5
WOXT 040308 PNSR-MM	0,8	0,8	3,5

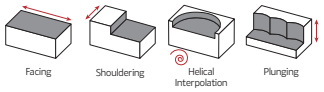
PLUNGING Mergulho | Plunge

L≤3DC	L>3DC	S max.
f_z (mm/t)		
0,10-0,30	0,08-0,25	$Smax = \sqrt{DC.Dr - Dr^2}$



S max and DR corresponding cutting diameter DC (mm)							
DR (mm)	DC (mm)						
	18	20	25	32	40	50	60
1,0	4,1	4,4	4,9	5,6	6,2	7,0	7,9
1,5	5,0	5,3	5,9	6,8	7,6	8,5	9,6
2,0	5,7	6,0	6,8	7,7	8,7	9,8	11,0
2,5	6,2	6,6	7,5	8,6	9,7	10,9	12,3

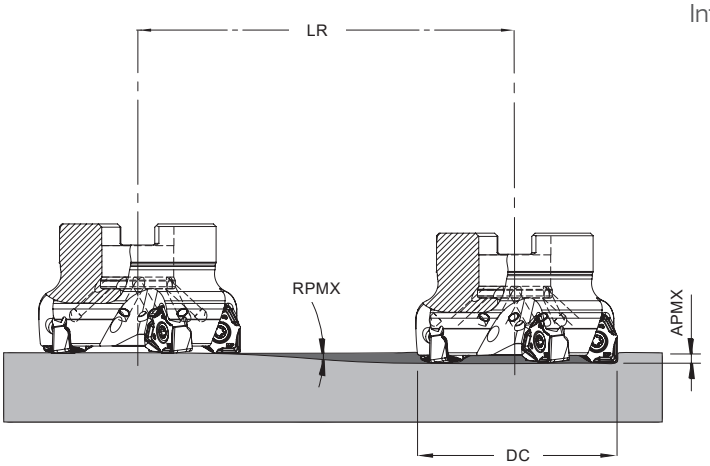
Note: This values are only for WNXT inserts.



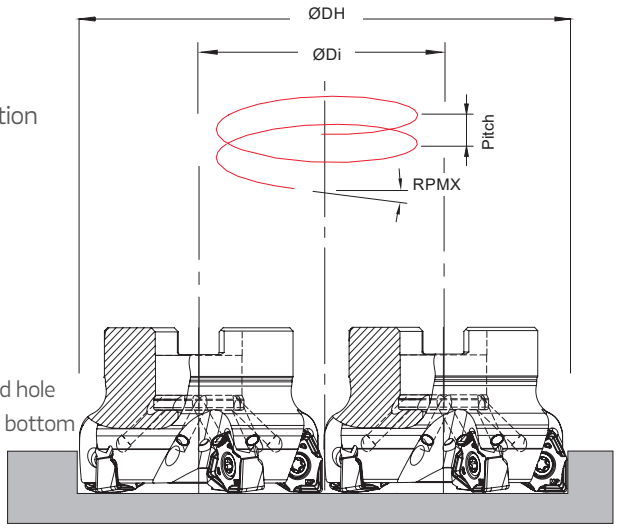
RAMPING AND HELICAL INTERPOLATION

Descida em rampa e interpolação helicoidal | Bajada en rampa e interpolación circular

Ramping



Helical Interpolation



ØDi = ØDH - DC

DC	Ramping			Helical Interpolation		
	RPMX	APMX	Min LR	ØDHmin	ØDHmax	Max Pitch/Rev.
18	2,40	3,5	83,5	31,2 -	- 34,4	1,70 2,10
20	2,00	3,5	100,2	35,2 -	- 38,4	1,60 2,00
25	1,50	3,5	133,7	45,2 -	- 48,4	1,60 1,90
32	1,15	3,5	174,4	59,2 -	- 62,4	1,70 1,90
40	0,85	3,5	235,9	75,2 -	- 78,4	1,60 1,70
50	0,65	3,5	308,5	95,2 -	- 98,4	1,60 1,70
63	0,50	3,5	401,1	121,2 -	- 124,4	1,50 1,60

Note: This values are only for WOXT inserts.
During helical interpolation do not exceed APMX.
(*) Down cutting is recommended, tool pass rotation should be counter-clockwise.
(*) In case of ramping and helical interpolation, apply 70% or less feed (fz) from recommended cutting conditions table.

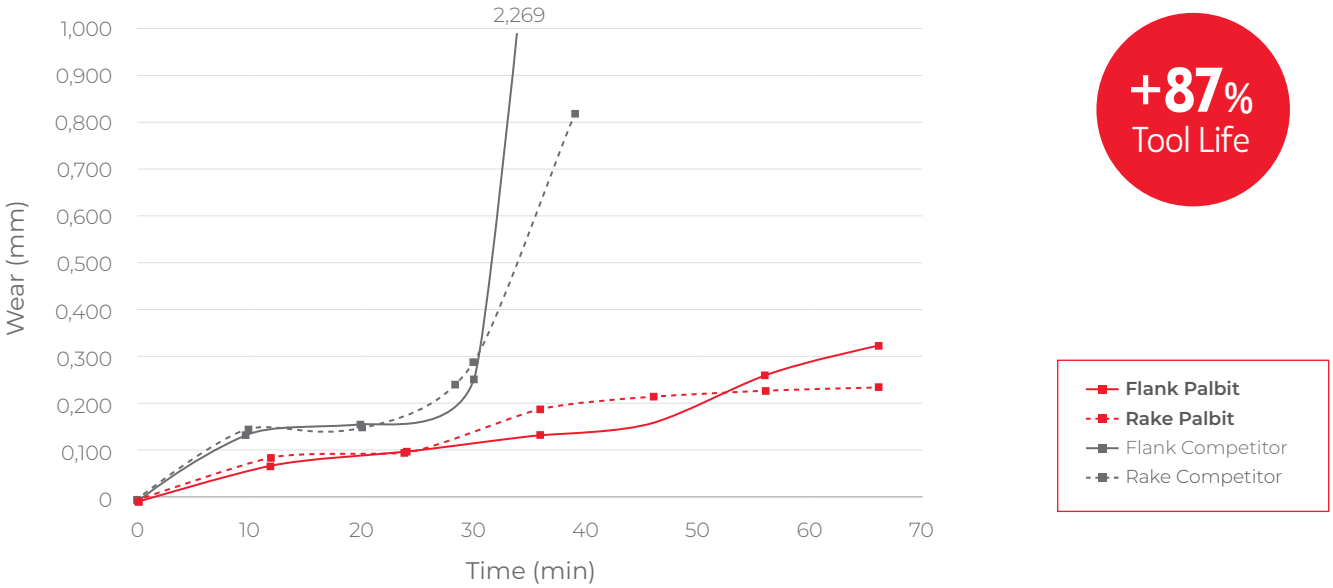
TEST REPORT - WNXT 04 Relatório de Teste - WNXT 04 | Informe de Prueba - WNXT 04

Workpiece Material: Steel 1.2738

Coolant: Air

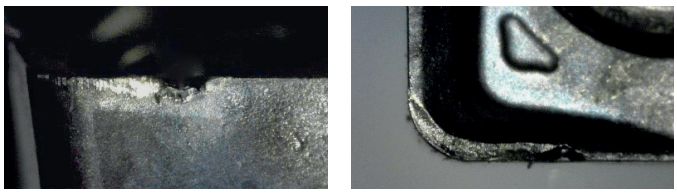
Toolholder	040A49490-06-05-016040
Insert	WNXT 040308 PNSR-MP PHP920
Operation	Shoulder milling

Cutting speed: Vc	170 m/min
Feed per tooth: fz	0,15 mm/t
Depth of cut: ap	2,0 mm
Stepover : ae	24 mm (60%)
Time	16 hours | 30 hours



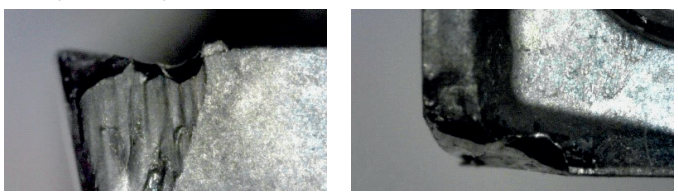
+87% Tool Life

Palbit WNXT

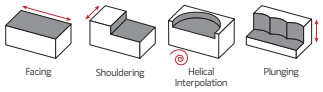


Tool wear after 66 minutes of machining

Competitor equivalent



Tool wear after 39 minutes of machining



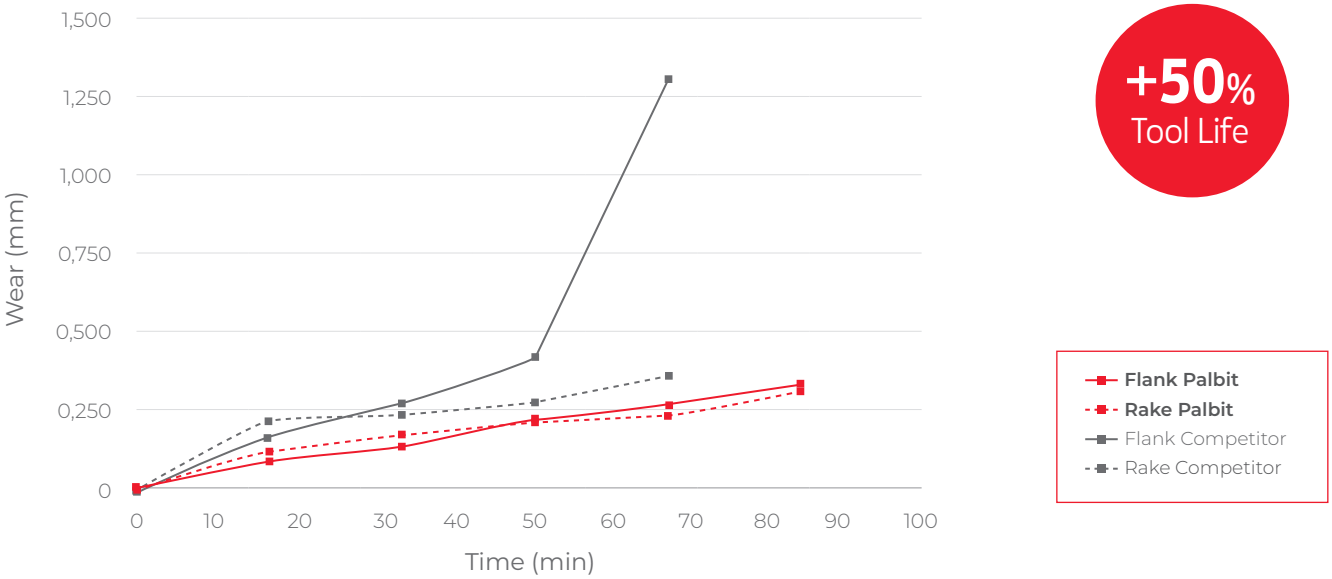
TEST REPORT - WOXT 04 Relatório de Teste - WOXT 04 | Informe de Prueba - WOXT 04

Workpiece Material: 316L (Stainless Steel)

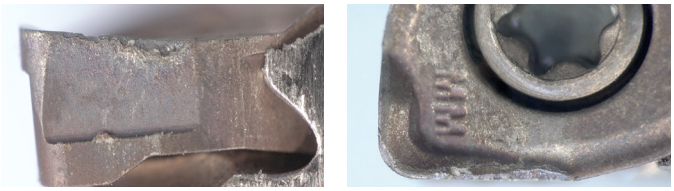
Coolant: Air

Toolholder	040A49490-06-05-016040
Insert	WOXT 040308 PNSR-MM PHF530
Operation	Shoulder milling

Cutting speed: Vc	150 m/min
Feed per tooth: fz	0,08 mm/t
Depth of cut: ap	3,5 mm
Stepover : a_e	6 mm (15%)
Time	68 min | 85 min

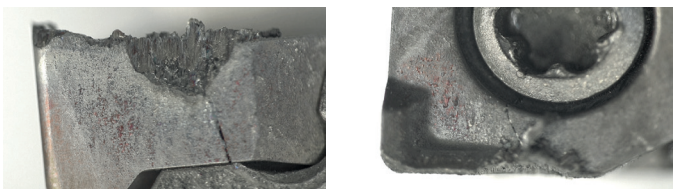


Palbit WOXT



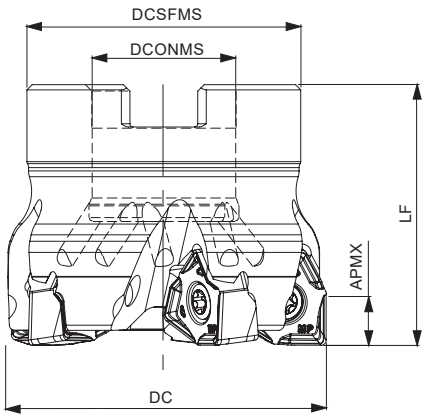
Tool wear after 85 minutes of machining

Competitor equivalent



Tool wear after 68 minutes of machining

HEXAPLUS 49590



Arbor Mounting

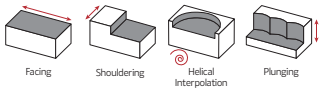
KAPR=90° | GAMP=-6°

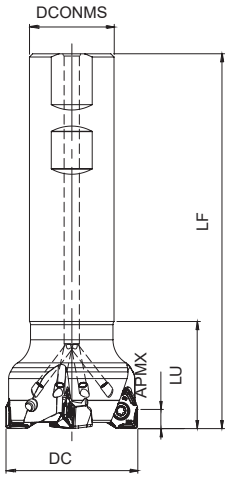
Order code Código	Reference Referência Referencia	CICT	Dimensions | Dimensões | Dimensiones (mm)				WT	Specifications		Insert Pastilha Inserto	Stock
			DC	DCONMS	DCSFMS	LF		Arbor Type	APMX (mm)		
181174900	040A49590-03-06-016040	3	40	16	32	40	0,150	A	7,5	WNXT 0806...	●
181175000	040A49590-04-06-016040	4	40	16	32	40	0,130	A	7,5	WNXT 0806...	○
181173400	050A49590-04-06-022040	4	50	22	42	40	0,390	A	7,5	WNXT 0806...	●
181165600	050A49590-05-06-022040	5	50	22	42	40	0,380	A	7,5	WNXT 0806...	●
181173500	063A49590-05-06-022040	5	63	22	48	40	0,500	A	7,5	WNXT 0806...	●
181173600	063A49590-06-06-022040	6	63	22	48	40	0,490	A	7,5	WNXT 0806...	●
181173700	080A49590-07-06-027050	7	80	27	60	50	1,180	B	7,5	WNXT 0806...	●
181173800	080A49590-09-06-027050	9	80	27	60	50	1,160	B	7,5	WNXT 0806...	○
181173900	100A49590-08-06-032050	8	100	32	80	50	1,620	B	7,5	WNXT 0806...	●
181174000	100A49590-11-06-032050	11	100	32	80	50	1,550	B	7,5	WNXT 0806...	○
181174100	125A49590-11-06-040063	11	125	40	90	63	2,820	B	7,5	WNXT 0806...	●
181174200	125A49590-14-06-040063	14	125	40	90	63	2,760	B	7,5	WNXT 0806...	○
181204200	160A49590-12-06-040063	12	160	40	90	63	3,800	B	7,5	WNXT 0806...	●

● Stock item | Produto de stock | Itens de stock

○ Available under request | Disponível sobre consulta | Disponible bajo consulta

HEXAPLUS 49590
WNXT 08





Weldon Shank

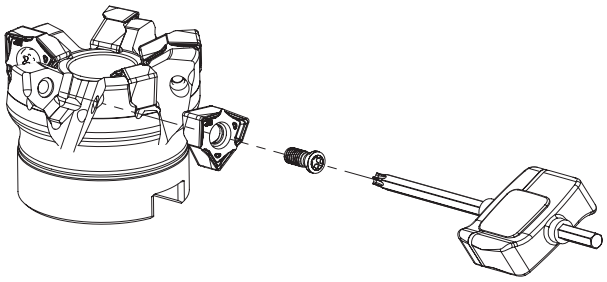
KAPR=90° | GAMP=-6°

Order code Código	Reference Referência Referencia	CICT	Dimensions | Dimensões | Dimensiones (mm)				WT	Specifications	Insert Pastilha Inserto	Stock
			DC	DCONMS	LF	LU		APMX (mm)		
181174300	032W49590-02-06-032125	2	32	32	125	40	0,650	7,5	WNXT 0806...	◈
181174500	040W49590-03-06-032130	3	40	32	130	40	0,700	7,5	WNXT 0806...	◈
181174600	040W49590-04-06-032130	4	40	32	130	40	0,650	7,5	WNXT 0806...	◈
181174700	050W49590-04-06-032140	4	50	32	140	45	0,860	7,5	WNXT 0806...	○
181174800	050W49590-05-06-032140	5	50	32	140	45	0,810	7,5	WNXT 0806...	○

◈ Stock item | Produto de stock | Itens de stock ○ Available under request | Disponível sobre consulta | Disponible bajo consulta

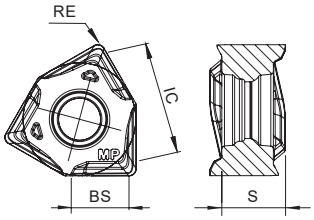
SPARE PARTS Acessórios | Repuestos

Cutter DC	Order separately				Order separately		
	Insert Screw	Key (Torx)	Key (Torx - Nm)	Torque Value	Screw	DIN 6368 Wrench	Retaining Screw
W49590 - 32 - 50	P0401200	XT15	DT1530	3,0	-	-	-
A49590 - 40	P0401200	XT15	DT1530	3,0	-	-	290087600
A49590 - 50 - 63	P0401200	XT15	DT1530	3,0	-	-	-
A49590 - 80	P0401200	XT15	DT1530	3,0	J0123510	SD6368-12	-
A49590 - 100	P0401200	PT15	DT1530	3,0	J0164110	SD6368-16	-
A49590 - 125 -160	P0401200	PT15	DT1530	3,0	J0204610	SD6368-20	-



WNXT 0806... Inserts | Pastilhas | Plaquitas

WNXT



WNXT

		P		K		Dimensions Dimensões Dimensiones (mm)			
		PVD		PVD					
	(2) Grade code	T1	P4	T1	P4				
(1) Geometry code	ISO Reference	PHP920	PHP930	PHP920	PHP930	IC	S	RE	BS
1113000	WNXT 080608 PNSR-MP	●	◉	●	◉	12,70	6,30	0,80	4,10

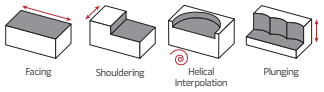
● First choice | Primeira opção | 1ª opción ◉ Stock item | Produto de stock | Itens de stock ○ Available under request | Disponível sobre consulta Disponible bajo consulta

Insert order code = (1) Geometry Code + (2) Grade Code

GRADES SELECTION GUIDE Guia para selecção de graus | Tabla para selección de calidades

ISO	PSM	Material	HB (Brinell)	Grades ← Wear Resistance Toughness → PHP920	PHP930
P	1	Unalloyed Steel	125-220	✓	✓
	2	Low-Alloyed Steel	220-280	✓	✓
	3	High-Alloyed Steel	280-380	✓	✓
K	7	Malleable Cast Iron	130-230	✓	✓
	8	Grey Cast Iron	180-245	✓	✓
	9	Nodular Cast iron	160-250	✓	✓

Good Conditions | Average Conditions | Difficult Conditions

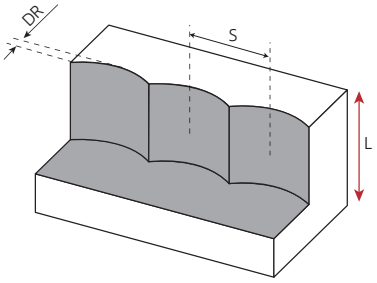


RECOMMENDED CUTTING CONDITIONS Condições de corte recomendadas | Condiciones de corte recomendables

ISO	PSM	Material	HB (Brinell)	Vc (m/min) ← Wear Resistance	Toughness →	Feed fz (mm/t)
				PHP920	PHP930	WNXT 0806
P	1	Unalloyed Steel	125-220	180-250	160-230	0,05-0,25
	2	Low-Alloyed Steel	220-280	160-230	140-210	0,05-0,25
	3	High-Alloyed Steel	280-380	140-220	120-200	0,08-0,20
K	7	Malleable Cast Iron	130-230	130-230	150-250	0,08-0,30
	8	Grey Cast Iron	180-245	180-245	140-230	0,08-0,30
	9	Nodular Cast iron	160-250	120-210	100-200	0,08-0,25

PLUNGING Mergulho | Plunge

L≤3DC	L>3DC	S max.
f_z (mm/t)		
0,10-0,30	0,08-0,25	$Smax = \sqrt{DC.Dr - Dr^2}$



S max and DR corresponding cutting diameter DC (mm)								
DR (mm)	DC (mm)							
	32	40	50	63	80	100	125	160
1	5,6	6,2	7,0	7,9	8,9	9,9	11,1	12,6
2	7,7	8,7	9,8	11,0	12,5	14,0	15,7	17,8
3	9,3	10,5	11,9	13,4	15,2	17,1	19,1	21,7
4	10,6	12,0	13,6	15,4	17,4	19,6	22,0	25,0

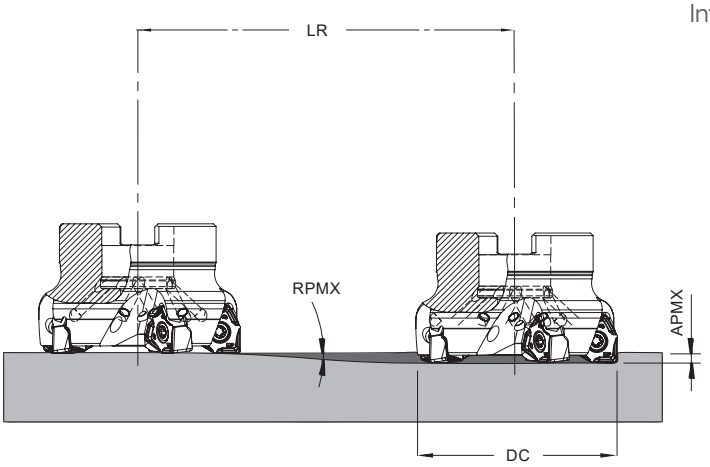
PROGRAMMING DATA Dados para programação | Datos para la programación

Insert	Programming Data		
	Insert radius (mm)	Wiper edge (mm)	APMX (mm)
WNXT 080308 PNSR-MM	0,8	4,1	7,5

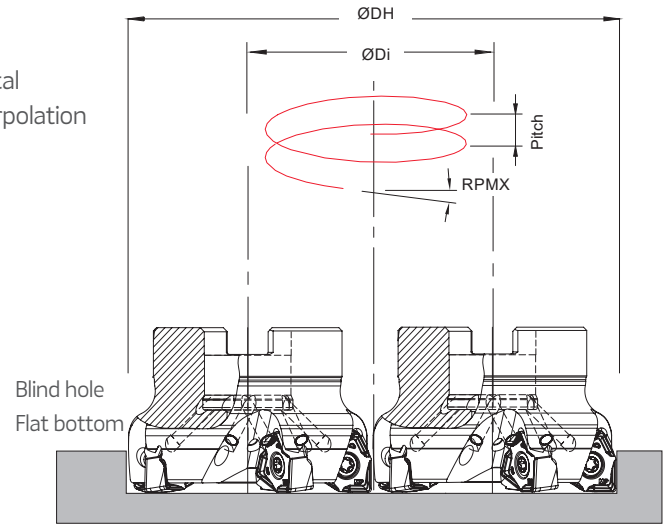
RAMPING AND HELICAL INTERPOLATION

Descida em rampa e interpolação helicoidal | Bajada en rampa e interpolación circular

Ramping



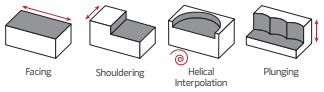
Helical Interpolation



ØDi = ØDH - DC

DC	Ramping			Helical Interpolation		
	RPMX	APMX	Min LR	ØDHmin	ØDHmax	Max Pitch/Rev.
32	0,45	7,5	954,9	54,2 -	- 62,4	0,54 0,75
40	0,30	7,5	1432,4	70,2 -	- 78,4	0,49 0,63
50	0,20	7,5	2148,6	90,2 -	- 98,4	0,44 0,53
63	0,14	7,5	3069,4	116,2 -	- 124,4	0,40 0,47
80	0,10	7,5	4297,2	150,2 -	- 158,4	0,38 0,42
100	0,07	7,5	6138,8	190,2 -	- 198,4	0,34 0,37
125	0,05	7,5	8594,4	240,2 -	- 248,4	0,31 0,33
160	0,04	7,5	10743,0	310,2 -	- 318,4	0,32 0,34

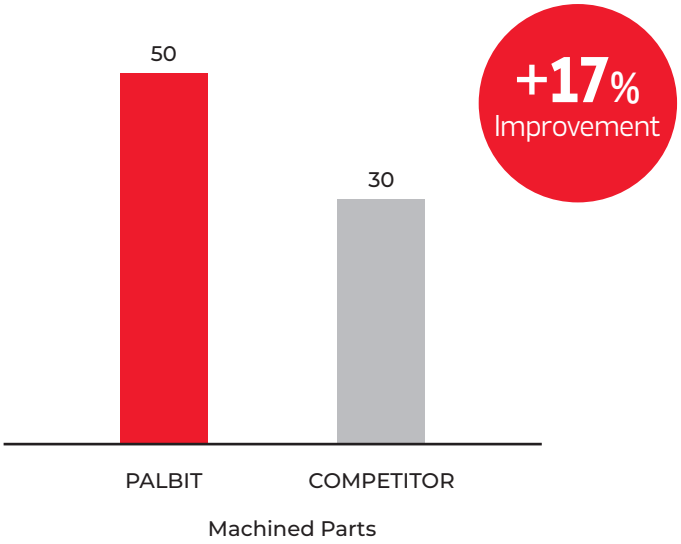
Note: During helical interpolation do not exceed APMX.
(*) Down cutting is recommended, tool pass rotation should be counter-clockwise.
(*) In case of ramping and helical interpolation, apply 70% or less feed (fz) from recommended cutting conditions table.



TEST REPORT - WNXT 08 Relatório de Teste - WNXT 08 | Informe de Prueba - WNXT 08

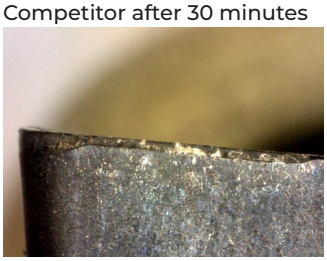
Workpiece Material: 40CrMnNiMo7 (1.2738) - (34 - 36 HRC)
Toolholder: 050A49590-05-06-022040
Insert: WNXT 080608 PNSR-MP PHP920
Operation: Shoulder milling
Coolant: Air

Cutting speed: Vc	200 m/min
Feed per tooth: fz	0,15 mm/t
Depth of cut: a_p	4,0 mm
Stepover : a_e	10 mm (20%)



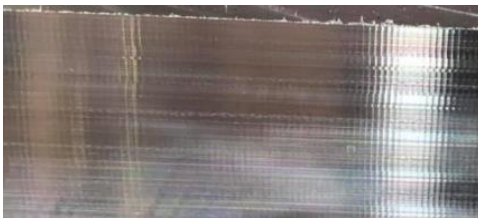
Palbit after 50 minutes

Competitor after 30 minutes

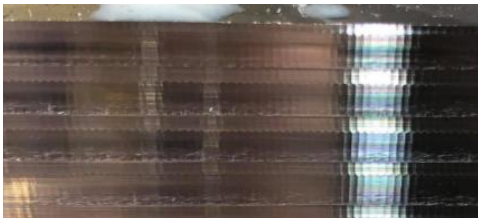


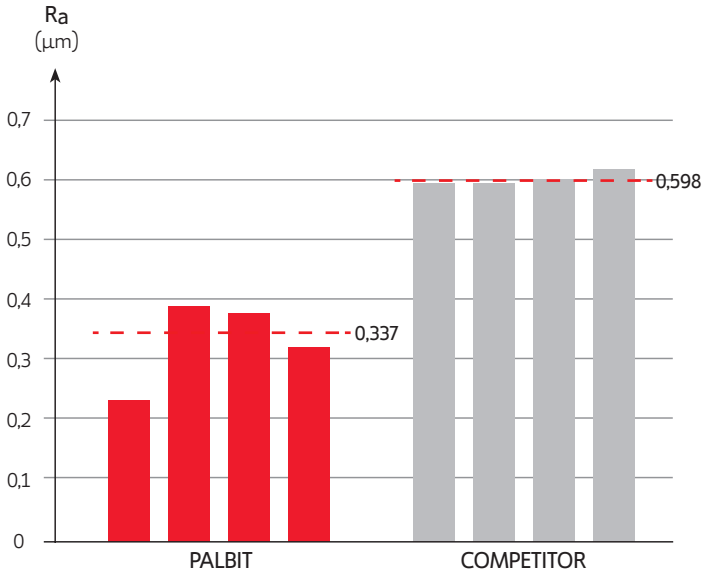
SURFACE FINISHING

PALBIT



COMPETITOR





49490 | 49590

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