

NPA 50

METRIC

VARDEX

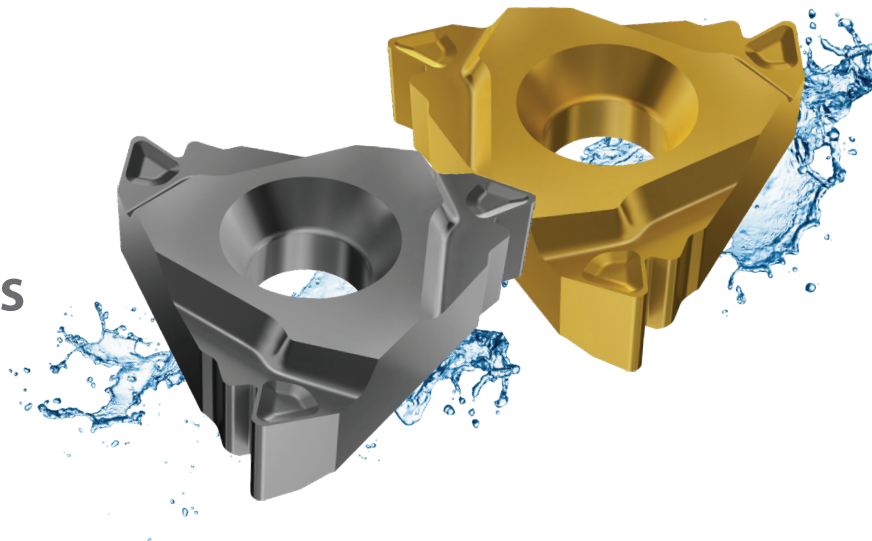
Since 1960
vargus
NEUMO Ehrenberg Group

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FS LINE

NEW

Fully Sintered Inserts



Features and Benefits:

- Economical solution for all industries
- The program offers 40 of the most popular profiles for external (IC3/8") and internal (IC1/4", IC3/8") inserts
- Threading standards: Partial Profile 60°, Partial Profile 55°, ISO Metric, American UN, Whitworth, NPT & API Round
- FS Line inserts are suitable with all standard Thread Turning Holders

Grades:

- **FSK Grade** - TiN coated, recommended for steel and general use
- **FST Grade** - TiAlN coated, for stainless steel and general use

Ordering Code:

- New FS Line insert designation is marked as "FS". For example: **3FSER3.0ISOFSK**

Insert Marking:

- Insert designation on the bottom of the insert



Packaging:

- **NEW** 10-piece packaging



The NEW **FS LINE** is now included in the **VARGUS GENius™**, the most advanced Tool Selector and CNC Program Generator in the metal cutting tools industry.

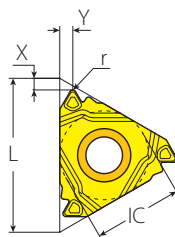


Please contact me directly with specific questions and requests.
For additional updates and news visit the VARGUS website: www.vargus.com

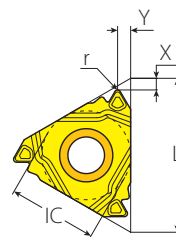
Ami Yacar
Vardex Product Manager

Scroll down for complete details 

New FS LINE Fully Sintered Inserts

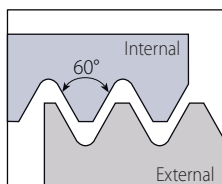


External



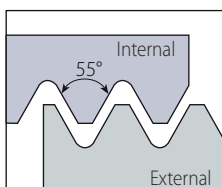
Internal

Partial Profile 60°



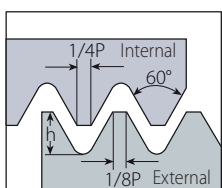
	Insert Size		Pitch		Ordering Code	Market Description	Dimensions mm			Anvil	
	IC	L mm	mm	TPI	RH		r	X	Y	RH	Toolholder
External	3/8"	16	1.75-3.0	14-8	3FSERG60...	16FSERG60...	0.27	1.3	1.7	YE3	AL...-3
			0.5-3.0	48-8	3FSERAG60...	16FSERAG60...	0.08	1.2	1.7		
Internal	1/4"	11	0.5-1.5	48-16	2FSIRA60...	11FSIRA60...	0.05	0.8	0.9	-	NVR...-2
	3/8"	16	1.75-3.0	14-8	3FSIRG60...	16FSIRG60...	0.16	1.1	1.5	Y13	A/NVR...-3
			0.5-3.0	48-8	3FSIRAG60...	16FSIRAG60...	0.05	1.1	1.6		

Partial Profile 55°



	Insert Size		Pitch		Ordering Code		Market Description			Dimensions mm			Anvil	
	IC	L mm	mm	TPI	RH					r	X	Y	RH	Toolholder
External	3/8"	16	0.5-3.0	48-8	3FSERAG55...	16FSERAG55...	0.07	1.1	1.7	0.07	1.1	1.7	YE3	AL...-3
Internal	3/8"	16	0.5-3.0	48-8	3FSIRAG55...	16FSIRAG55...	0.07	1.1	1.7	0.07	1.1	1.7	YI3	A/NVR...-3

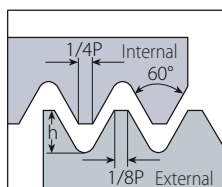
ISO Metric | Defined by: R262 (DIN 13) | Tolerance class: 6g/6H



	Insert Size		Pitch		Ordering Code		Market Description			Dimensions mm			Anvil	
	IC	L mm	mm	TPI	RH					h min	X	Y	RH	Toolholder
External	3/8"	16	1.0	24	3FSER1.0ISO...	16FSER1.0ISO...	0.61	1.5	0.7	1.07	1.0	1.1	YE3	AL...-3
			1.25	20	3FSER1.25ISO...	16FSER1.25ISO...	0.77	1.4	0.8					
			1.5	16	3FSER1.5ISO...	16FSER1.5ISO...	0.92	1.3	0.9					
			1.75	14	3FSER1.75ISO...	16FSER1.75ISO...	1.07	1.0	1.1					
			2.0	12	3FSER2.0ISO...	16FSER2.0ISO...	1.23	1.4	1.3					
			2.5	10	3FSER2.5ISO...	16FSER2.5ISO...	1.53	1.6	1.5					
			3.0	8	3FSER3.0ISO...	16FSER3.0ISO...	1.84	1.6	1.6					
Internal	1/4"	11	1.0	24	2FSIR1.0ISO...	11FSIR1.0ISO...	0.58	1.0	0.6	0.87	0.9	0.8	-	NVR...-2
			1.5	20	2FSIR1.5ISO...	11FSIR1.5ISO...	0.87	0.9	0.8					
			2.0	16	2FSIR2.0ISO...	11FSIR2.0ISO...	1.15	0.9	1.0					
	3/8"	16	1.0	24	3FSIR1.0ISO...	16FSIR1.0ISO...	0.58	1.4	0.7	1.15	1.3	1.3	YI3	A/NVR...-3
			1.25	20	3FSIR1.25ISO...	16FSIR1.25ISO...	0.72	1.3	0.8					
			1.5	16	3FSIR1.5ISO...	16FSIR1.5ISO...	0.87	1.2	0.9					
			2.0	12	3FSIR2.0ISO...	16FSIR2.0ISO...	1.15	1.3	1.3					
			2.5	10	3FSIR2.5ISO...	16FSIR2.5ISO...	1.44	1.3	1.4					
			3.0	8	3FSIR3.0ISO...	16FSIR3.0ISO...	1.73	1.2	1.5					
			3.0	8	3FSIR3.0ISO...	16FSIR3.0ISO...	1.73	1.2	1.5					

* 2FSIR2.0ISO... available Q4, 2020

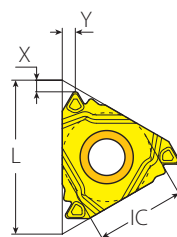
American UN | Defined by: ANSI B1.1:74 | Tolerance class: 2A/2B



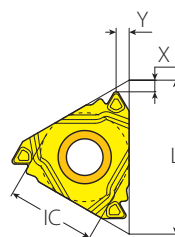
	Insert Size		Pitch		Ordering Code		Market Description			Dimensions mm			Anvil	
	IC	L mm	TPI	RH						h min	X	Y	RH	Toolholder
External	3/8"	16	20	3FSER20UN...	16FSER20UN...	0.78	1.4	0.8	0.97	1.2	1.1	1.2	YE3	AL...-3
			18	3FSER18UN...	16FSER18UN...	0.87	1.2	0.9						
			16	3FSER16UN...	16FSER16UN...	0.97	1.2	1.1						
			14	3FSER14UN...	16FSER14UN...	1.11	0.9	1.2						
			12	3FSER12UN...	16FSER12UN...	1.30	1.3	1.4						
Internal	3/8"	16	20	3FSIR20UN...	16FSIR20UN...	0.73	1.3	0.8	0.92	1.1	0.9	1.4	YI3	A/NVR...-3
			16	3FSIR16UN...	16FSIR16UN...	0.92	1.1	0.9						
			12	3FSIR12UN...	16FSIR12UN...	1.22	1.4	1.4						

New FS LINE

Fully Sintered Inserts

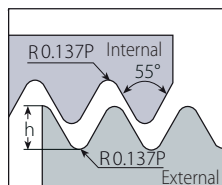


External



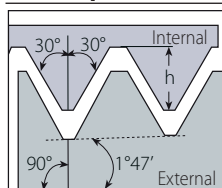
Internal

Whitworth for BSW, BSP | Defined by: B.S.84:1956, DIN 259, ISO228/1:1982 | Tolerance class: Medium class A



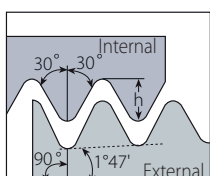
	Insert Size		Pitch	Ordering Code	Market Description	Dimensions mm			Anvil	
	IC	L mm	TPI	RH		h min	X	Y	RH	Toolholder
External	3/8"	16	14	3FSER14W...	16FSER14W...	1.16	1.0	1.2	YE3	AL...-3
			11	3FSER11W...	16FSER11W...	1.48	1.4	1.5		
Internal	3/8"	16	14	3FSIR14W...	16FSIR14W...	1.16	1.2	1.2	YI3	A/NVR...-3
			11	3FSIR11W...	16FSIR11W...	1.48	1.3	1.4		

NPT | Defined by: USAS B2.1:1968 | Tolerance class: Standard NPT



	Insert Size		Pitch	Ordering Code	Market Description	Dimensions mm			Anvil	
	IC	L mm	TPI	RH		h min	X	Y	RH	Toolholder
External	3/8"	16	14	3FSER14NPT...	16FSER14NPT...	1.33	0.9	1.2	YE3	AL...-3
			11.5	3FSER11.5NPT...	16FSER11.5NPT...	1.64	1.1	1.5		
Internal	3/8"	16	14	3FSIR14NPT...	16FSIR14NPT...	1.33	1.1	1.2	YI3	A/NVR...-3
			11.5	3FSIR11.5NPT...	16FSIR11.5NPT...	1.64	1.2	1.4		

API Round Casing & Tubing | Defined by: API STD. 5B:1979 | Tolerance class: Standard API RD



	Insert Size		Pitch	Ordering Code	Market Description	Dimensions mm			Anvil	
	IC	L mm	TPI	RH		h min	X	Y	RH	Toolholder
Internal	3/8"	16	10	3FSIR10APIRD...	16FSIR10APIRD...	1.41	1.2	1.5	YEI3-APIRD or YI3	AVRC... 3APIRD or AVRC...-3