

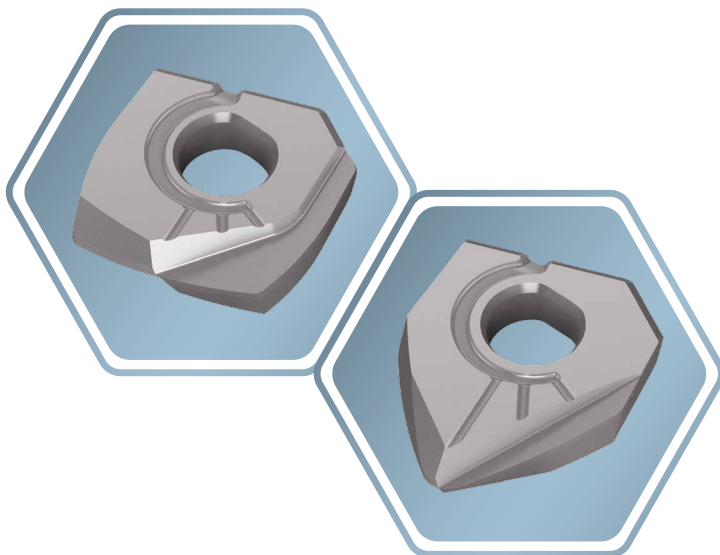
# NPN

New Product News



## FINEBARREL

**High Productivity Finishing  
Lens and Chamfer Barrel Inserts**



## KEY POINT

**TaeguTec introduces higher productivity finishing FINE-BARREL inserts for profile milling.**

The FINE-BARREL product line has introduced two barrel type inserts available in various sizes: the NFLB lens type and the NFCB chamfer type. Both inserts include a large radius cutting edge that increases productivity by more than 40% compared to the ball type insert, as they are capable of wide pitch machining.

The NFLB lens type allows for machining in a variety of profile forms thanks to its combined bottom and side cutting edges. Furthermore, depending on the cutting edge choice made during CAM programming, the two cutting edges can be used independently.

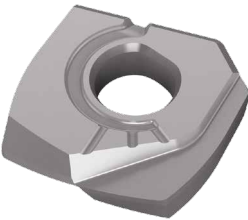
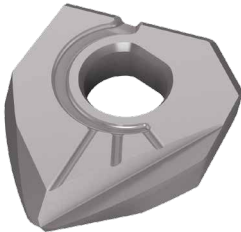
The inclined edge of the NFCB chamfer insert increases efficiency while also allowing for short overhang machining of inclined profiles. Additionally, the bottom radius edge can perform the same operations as the ball type end mill.

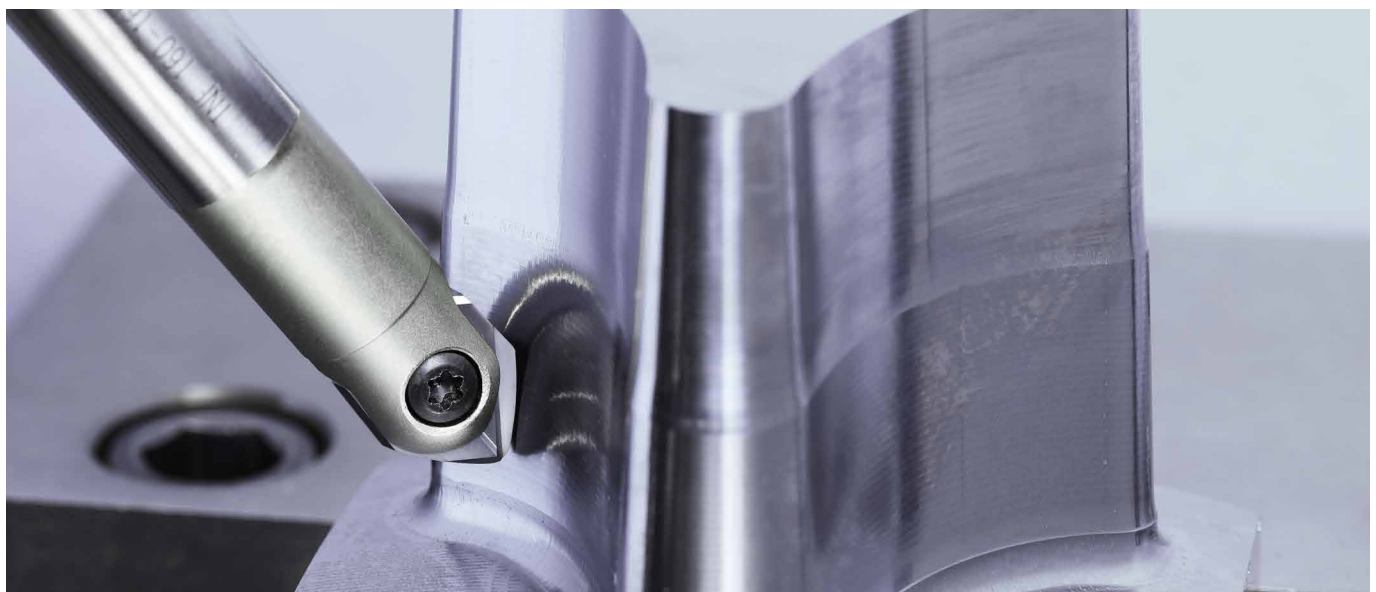
FINE-BARREL inserts are compatible with the FINE-BALL product line's TNF holders, allowing for a wide variety of shank choices.

Please note that to use barrel tools on 5-axis machining centers, CAM software is required. CAM software support is currently offered for hyperMILL and CATIA NC.

For CAM help and other technical questions, please contact the product manager.

### FINE-BARREL Insert

NFLB <b>new</b>	NFCB <b>new</b>
	

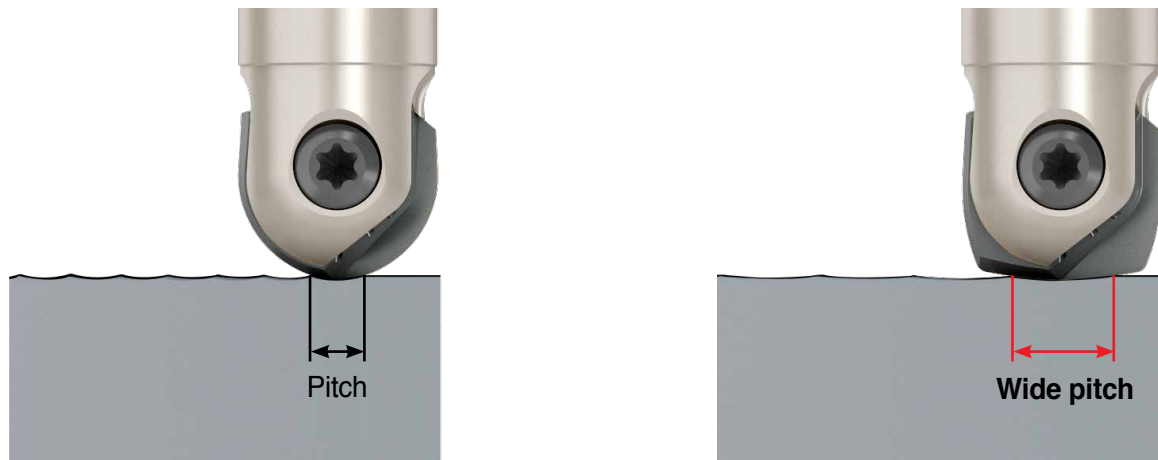


## Features

- Larger radius cutting edges

Ball type	FINEBARREL <b>new</b>	
	Lens barrel type	Chamfer barrel type
<p>R: 0.5xD D</p>	<p>R: 1xD R: 2xD D</p>	<p>R: 2.5xD D</p>

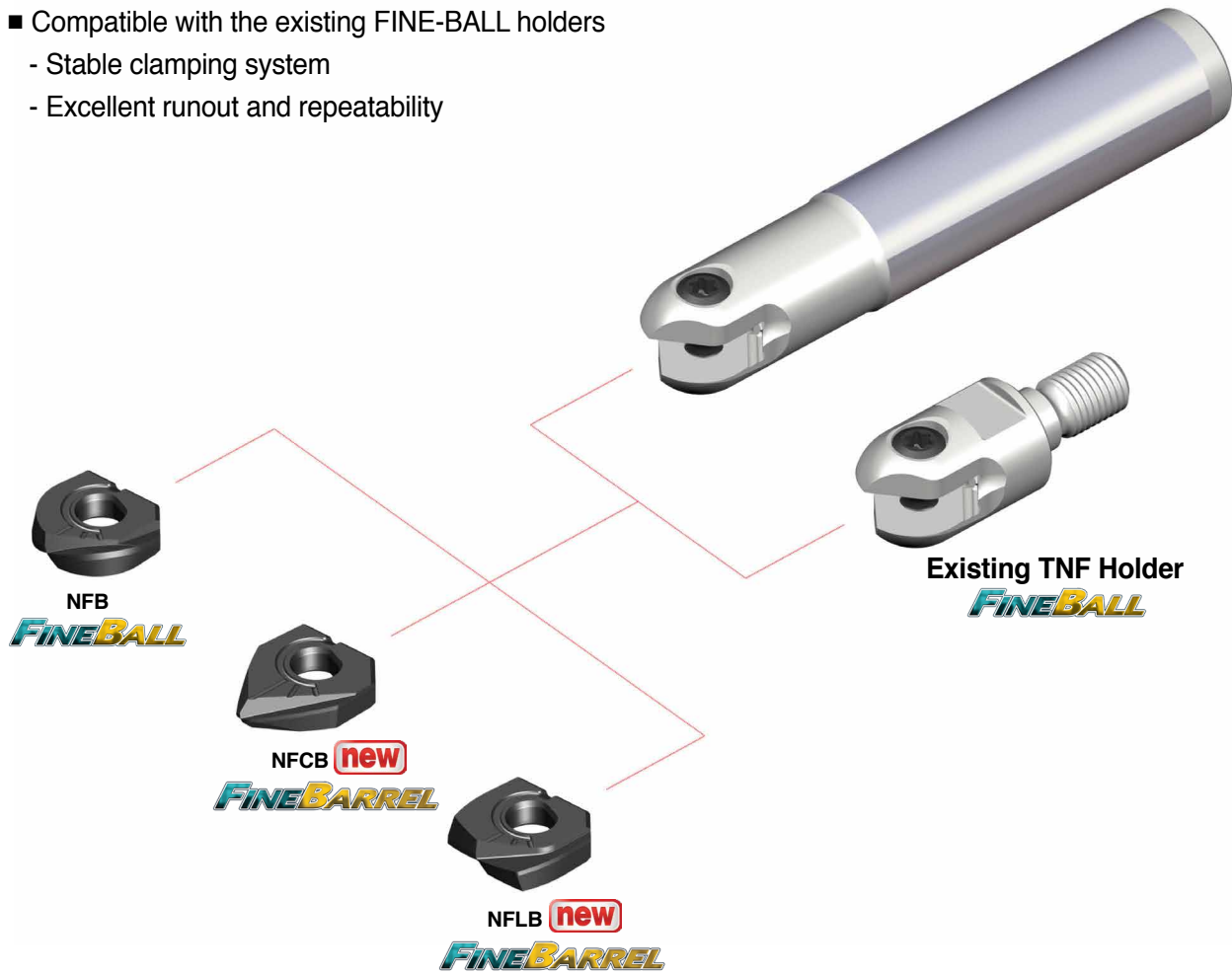
- Improved productivity and surface roughness compared to ball type inserts



- Inserts combine barrel edges for a wider variety of applications

NFLB	NFCB
<p>Bottom edge Side edge</p> <p>Bottom and side barrel edges</p>	<p>Inclined edge Corner R</p> <p>Inclined barrel and corner R edges</p>

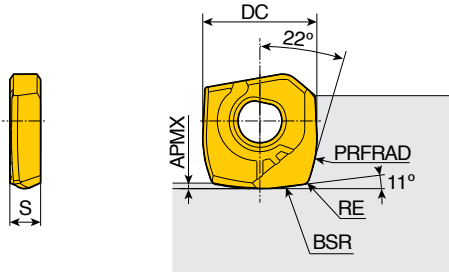
- Compatible with the existing FINE-BALL holders
  - Stable clamping system
  - Excellent runout and repeatability





## NFLB new

### Inserts



Size	Dimension (mm)					
	DC	S	APMX	RE	BSR	PRFRAD
<b>120</b>	12	3.2	0.4	0.7	24	12
<b>160</b>	16	4.2	0.6	0.8	32	16
<b>200</b>	20	5.2	0.7	1	40	20
<b>250</b>	25	6.2	0.9	1.3	50	25
<b>300</b>	30	7.2	1.1	1.5	60	30

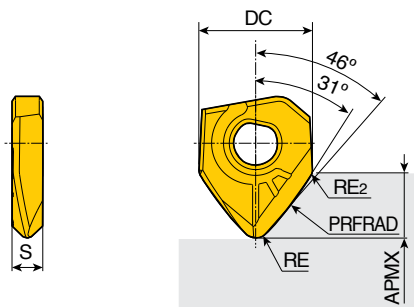
Insert	Designation	Recommended machining conditions		Coated							Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT5515	K10
	<b>NFLB 120-L24-B12</b>	-	0.15-0.08									●	
	<b>160-L32-B16</b>	-	0.15-0.08									●	
	<b>200-L40-B20</b>	-	0.15-0.08									●	
	<b>250-L50-B25</b>	-	0.15-0.08									●	
	<b>300-L60-B30</b>	-	0.20-0.08									●	

●: Standard items

## NFCB new



### Inserts



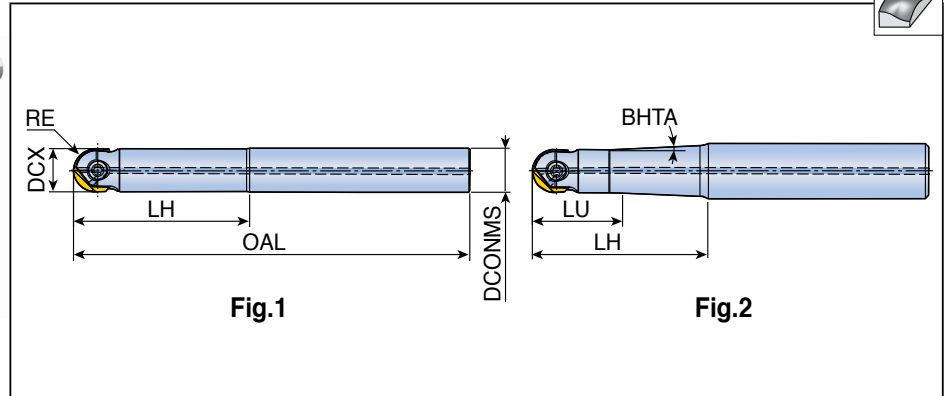
Size	Dimension (mm)					
	DC	S	APMX	RE	PRFRAD	RE <sub>2</sub>
<b>80</b>	8	2.2	4.3	1.0	20	0.6
<b>100</b>	10	2.7	5.4	1.2	25	0.8
<b>120</b>	12	3.2	6.4	1.5	30	1.0
<b>160</b>	16	4.2	8.5	2.0	40	1.3
<b>200</b>	20	5.2	10.7	2.5	50	1.6
<b>250</b>	25	6.2	13.5	3.0	62.5	2.0
<b>300</b>	30	7.2	16.3	3.5	75	2.4

Insert	Designation	Recommended machining conditions		Coated							Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT5515	K10
	<b>NFCB 080-R20</b>	-	0.12-0.05									●	
	<b>100-R25</b>	-	0.12-0.05									●	
	<b>120-R30</b>	-	0.15-0.08									●	
	<b>160-R40</b>	-	0.15-0.08									●	
	<b>200-R50</b>	-	0.15-0.08									●	
	<b>250-R62.5</b>	-	0.15-0.08									●	
	<b>300-R75</b>	-	0.20-0.08									●	

●: Standard items

## TNF

### End mills

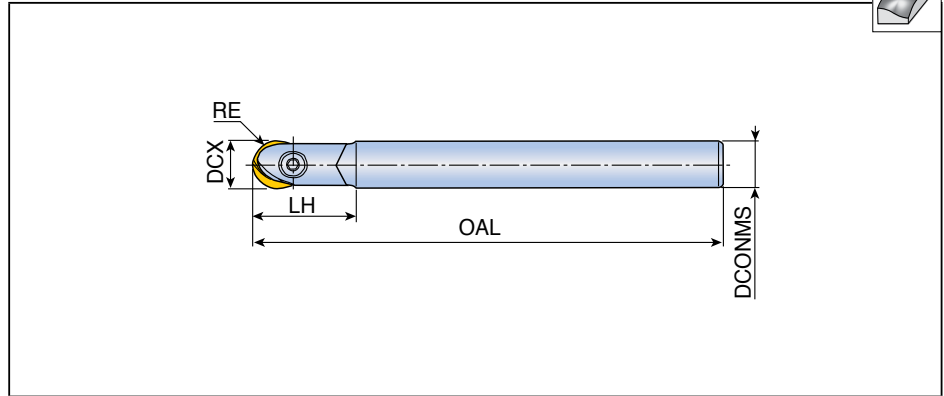


Designation	Dimension (mm)							Coolant hole	Fig.	Insert
	DCX	RE	DCONMS	OAL	LH	LU	BHTA			
<b>TNF 080-08S</b>	8	4	8	90	20	-	-	●	1	NFCB 080...
<b>080-12S</b>	8	4	12	100	20	10	9.5°	●	2	
<b>080-12M</b>	8	4	12	130	50	10	3°	●	2	
<b>100-10S</b>	10	5	10	90	30	-	-	●	1	NFCB 100...
<b>100-12S</b>	10	5	12	110	25	15	5°	●	2	
<b>100-16M</b>	10	5	16	130	60	15	3.5°	●	2	
<b>120-12S</b>	12	6	12	110	30	-	-	●	1	NFLB 120... NFCB 120...
<b>120-12M</b>	12	6	12	180	60	-	-	●	1	
<b>120-16M</b>	12	6	16	140	60	25	2.4°	●	2	
<b>120-20L</b>	12	6	20	180	80	40	5°	●	2	NFLB 160... NFCB 160...
<b>160-16M</b>	16	8	16	130	40	-	-	●	1	
<b>160-16L</b>	16	8	16	200	100	-	-	●	1	
<b>160-20M</b>	16	8	20	160	60	25	2.5°	●	2	NFLB 200... NFCB 200...
<b>160-25L</b>	16	8	25	220	100	55	5°	●	2	
<b>200-20S</b>	20	10	20	110	40	-	-	●	1	
<b>200-20M</b>	20	10	20	150	50	-	-	●	1	NFLB 250... NFCB 250...
<b>200-20L</b>	20	10	20	220	70	-	-	●	1	
<b>200-25M</b>	20	10	25	180	80	40	2.5°	●	2	
<b>200-25L</b>	20	10	25	220	110	45	1.5°	●	2	NFLB 300... NFCB 300...
<b>250-25S</b>	25	12.5	25	125	40	-	-	●	1	
<b>250-25M</b>	25	12.5	25	170	70	-	-	●	1	
<b>250-32M</b>	25	12.5	32	200	90	32	3°	●	2	NFLB 300... NFCB 300...
<b>250-32L</b>	25	12.5	32	250	130	40	1.5°	●	2	
<b>300-32S</b>	30	15	32	140	55	-	-	●	1	
<b>300-32M</b>	30	15	32	190	75	-	-	●	1	NFLB 300... NFCB 300...
<b>300-32L</b>	30	15	32	250	100	65	1°	●	2	
<b>300-32XL</b>	30	15	32	300	150	-	-	●	1	
<b>300-32-L220</b>	30	15	32	220	100	55	1°	●	2	



## TNF-CT-L

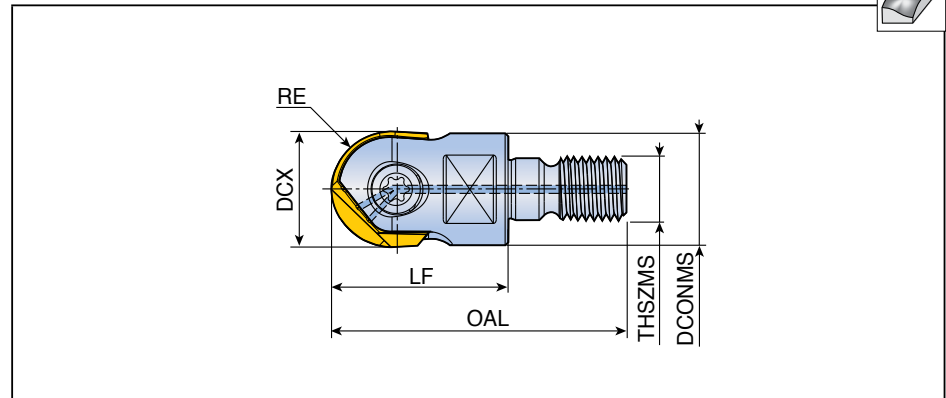
End mills-carbide shank



Designation	Dimension (mm)					Insert
	DCX	RE	DCONMS	OAL	LH	
<b>TNF 080-08-CT-L100</b>	8	4	8	100	30	NFCB 080...
<b>080-10-CT-L140</b>	8	4	10	140	75	
<b>080-08-CT-L160</b>	8	4	8	160	80	
<b>100-10-CT-L100</b>	10	5	10	100	35	NFCB 100...
<b>100-10-CT-L140</b>	10	5	10	140	75	
<b>100-10-CT-L200</b>	10	5	10	200	70	
<b>100-10-CT-L220</b>	10	5	10	220	140	
<b>120-12-CT-L120</b>	12	6	12	120	50	NFLB 120...
<b>120-12-CT-L160-S</b>	12	6	12	160	30	NFCB 120...
<b>120-12-CT-L160</b>	12	6	12	160	90	
<b>120-12-CT-L200</b>	12	6	12	200	70	
<b>120-12-CT-L220</b>	12	6	12	220	150	
<b>160-16-CT-L120</b>	16	8	16	120	60	NFLB 160...
<b>160-16-CT-L160-S</b>	16	8	16	160	70	NFCB 160...
<b>160-16-CT-L160</b>	16	8	16	160	80	
<b>160-16-CT-L200</b>	16	8	16	200	70	
<b>160-16-CT-L220</b>	16	8	16	220	150	
<b>200-20-CT-L200</b>	20	10	20	200	70	NFLB 200...
<b>200-20-CT-L110</b>	20	10	20	110	40	NFCB 200...
<b>200-20-CT-L220</b>	20	10	20	220	120	
<b>200-20-CT-L300</b>	20	10	20	300	220	
<b>250-25-CT-L200</b>	25	12.5	25	200	70	NFLB 250...
<b>250-25-CT-L220-S</b>	25	12.5	25	220	80	NFCB 250...
<b>250-25-CT-L220</b>	25	12.5	25	220	120	
<b>250-25-CT-L300</b>	25	12.5	25	300	220	
<b>300-32-CT-L200</b>	30	15	32	200	70	NFLB 300...
<b>300-32-CT-L250-S</b>	30	15	32	250	80	NFCB 300...
<b>300-32-CT-L250</b>	30	15	32	250	150	
<b>300-32-CT-L350-S</b>	30	15	32	350	80	
<b>300-32-CT-L350</b>	30	15	32	350	230	

## TNF-M

### Modular heads



Designation	Dimension (mm)						Coolant hole	Insert
	DCX	RE	DCONMS	OAL	LF	THSZMS		
<b>TNF 100-M06</b>	10	5	9.7	34.5	20	M06	●	NFCB 100...
<b>120-M06</b>	12	6	11.5	37.5	23	M06	●	NFLB 120...
<b>120-M08</b>	12	6	13	40.5	23	M08	●	NFCB 120...
<b>160-M08</b>	16	8	13	47.5	30	M08	●	NFLB 160... NFCB 160...
<b>200-M10</b>	20	10	19	50	30	M10	●	NFLB 200... NFCB 200...
<b>250-M12</b>	25	12.5	24	57	35	M12	●	NFLB 250...
<b>250-M16</b>	25	12.5	29	68	43	M16	●	NFCB 250...
<b>300-M16</b>	30	15	29	68	43	M16	●	NFLB 300... NFCB 300...

► Matched with T-FLEXTEC holder

### Spare parts

Designation	Screw	Wrench			Wrench handle
<b>TNF 080</b>	TS 25F080A	TD 8	-	-	-
<b>TNF 100</b>	TS 30F100A	TD 10	-	-	-
<b>TNF 120</b>	TS 40F120A	TD 15	-	-	-
<b>TNF 160</b>	TS 50F160A	-	T-T20	-	-
<b>TNF 200</b>	TS 60F200A	-	-	BLD T25/M7	SW6-T
<b>TNF 250</b>	TS 70F250A	-	-	BLD T25/M7	SW6-T
<b>TNF 300</b>	TS 80F300A	-	T-T30	-	-