

Advanced
Engineering

Hitachi Tool

HITACHI
Inspire the Next

Indexable
Milling
Modular Series

No. 318

ABPFM

Ball High Precision Finish Modular

ARPFM

Radius High Precision Finish Modular

$\varnothing 10 \sim \varnothing 32 \cdot \sim \text{HRC } 60$

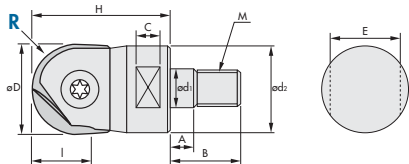
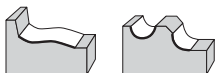


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Indexable Milling Tools

ABPFM | Ball High Precision Finish Modular

V max High Speed	▽ Semi-Finishing	▽▽ Finishing	HRC 60	No. of Teeth 2
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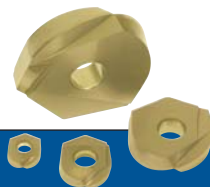
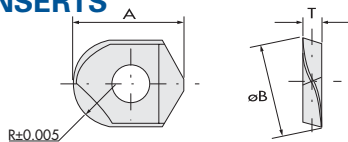


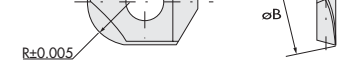
R	±0.005
Set-up	±0.010

ID Code	Item Code	Stock	Flutes	ØD	R	I	H	Ød ₁	M	Ød ₂	A	B	C	E	Inserts
FH 510	ABPFM-10	■	2	10	5	5.5	26	6.5	M6	9.8	5	14.5	5	7	ZPFG100
FH 511	ABPFM-12	■	2	12	6	6.6	26	6.5	M6	9.8	5	14.5	5	7	ZPFG120
FH 512	ABPFM-16	■	2	16	8	8.8	32	8.5	M8	12.8	6	17	8	10	ZPFG160
FH 513	ABPFM-20	■	2	20	10	11	38	10.5	M10	17.8	6	19	10	15	ZPFG200
FH 514	ABPFM-25	■	2	25	12.5	13.7	38	12.5	M12	20.8	7	22	10	17	ZPFG250
FH 515	ABPFM-32	■	2	32	16	17.6	43	17	M16	28.8	7	23	12	22	ZPFG320

■ = Stock | Germany

INSERTS



			C-Coated									G-Coated					
ID Code	Item No.	Grade	CY100H	CY150	CY250	CY250V	CY9020	PCA08M	PCA12M	PCA15 M	GF30	HC844	R	I(A)	T	W(B)	
WF 595	ZPFG100	PCA08M						■					5	12.1	2.7	10	
WF 548	ZPFG100	PCA12M							■				5	12.1	2.7	10	
WF 596	ZPFG120	PCA08M						■					6	14.6	3.2	12	
WF 549	ZPFG120	PCA12M							■				6	14.6	3.2	12	
WF 597	ZPFG160	PCA08M						■					8	16.6	4.2	16	
WF 598	ZPFG160	PCA12M							■				8	16.6	4.2	16	
WF 599	ZPFG200	PCA08M						■					10	20.3	5.2	20	
WF 600	ZPFG200	PCA12M							■				10	20.3	5.2	20	
WF 601	ZPFG250	PCA08M						■					12.5	24.1	6.2	25	
WF 602	ZPFG250	PCA12M							■				12.5	24.1	6.2	25	
WF 603	ZPFG320	PCA08M						■					16	30	7.2	32	
WF 604	ZPFG320	PCA12M							■				16	30	7.2	32	

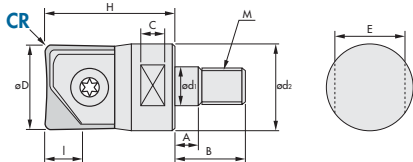
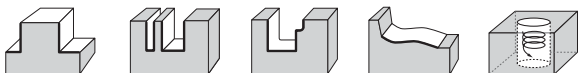
■ = Stock | Germany

 					 				
PARTS	Clamp Screw		Wrench			Clamp Screw		Wrench	
Body	ID-Code	Item-Code	ID-Code	Item-Code	Body	ID-Code	Item-Code	ID-Code	Item-Code
ABPFM-10	ET 154	581-142	ET 11	104-T10	ABPFM-20	ET 157	581-145	ET 9	101-T25S
ABPFM-12	ET 155	581-143	ET 14	105-T20	ABPFM-25	ET 168	581-146	ET 167	105-T30A
ABPFM-16	ET 156	581-144	ET 14	105-T20	ABPFM-32	ET 169	581-147	ET 167	105-T30A

Indexable Milling Tools

ARPFM | Radius High Precision Finish Modular

V max High Speed	Semi-Finishing	Finishing	HRC 60	No. of Teeth 2
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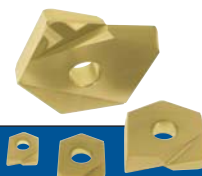
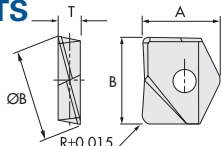


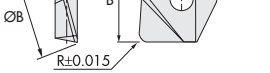
CR	±0.015
Set-up	±0.010

ID Code	Item Code	Stock	Flutes	ØD	I	H	Ød ₁	M	Ød ₂	A	B	C	E	Inserts
FH 516	ARPFM-10	■	2	10	3	26	6.5	M6	9.8	5	14.5	5	7	ZCFW100-R....
FH 517	ARPFM-12	■	2	12	4	26	6.5	M6	9.8	5	14.5	5	7	ZCFW120-R....
FH 518	ARPFM-16	■	2	16	5	32	8.5	M8	12.8	6	17	8	10	ZCFW160-R....
FH 519	ARPFM-20	■	2	20	6	38	10.5	M10	17.8	6	19	10	15	ZCFW200-R....
FH 520	ARPFM-25	■	2	25	8	38	12.5	M12	20.8	7	22	10	17	ZCFW250-R....
FH 521	ARPFM-32	■	2	32	10	43	17	M16	28.8	7	23	12	22	ZCFW320-R....

■ = Stock | Germany

INSERTS



			C-Coated							G-Coated						
ID Code	Item No.	Grade	CY100H	CY150	CY250	CY250V	CY9020	PCA08M	PCA12M	PCA15 M	GF30	HC844	R	I(A)	T	W(B)
WF 553	ZCFW100-03	PCA12M							■				0.3	12	2.7	10
WF 606	ZCFW100-05	PCA12M							■				0.5	12	2.7	10
WF 554	ZCFW100-10	PCA12M							■				1	12	2.7	10
WF 555	ZCFW100-15	PCA12M							■				1.5	12	2.7	10
WF 556	ZCFW100-20	PCA12M							■				2	12	2.7	10
WF 557	ZCFW120-03	PCA12M							■				0.3	14.6	3.2	12
WF 607	ZCFW120-05	PCA12M							■				0.5	14.6	3.2	12
WF 558	ZCFW120-10	PCA12M							■				1	14.6	3.2	12
WF 559	ZCFW120-15	PCA12M							■				1.5	14.6	3.2	12
WF 560	ZCFW120-20	PCA12M							■				2	14.6	3.2	12
WF 561	ZCFW160-03	PCA12M							■				0.3	16.6	4.2	16
WF 608	ZCFW160-05	PCA12M							■				0.5	16.6	4.2	16
WF 562	ZCFW160-10	PCA12M							■				1	16.6	4.2	16
WF 563	ZCFW160-15	PCA12M							■				1.5	16.6	4.2	16
WF 564	ZCFW160-20	PCA12M							■				2	16.6	4.2	16
WF 565	ZCFW200-03	PCA12M							■				0.3	19.9	5.2	20
WF 609	ZCFW200-05	PCA12M							■				0.5	19.9	5.2	20
WF 566	ZCFW200-10	PCA12M							■				1	19.9	5.2	20
WF 567	ZCFW200-15	PCA12M							■				1.5	19.9	5.2	20
WF 568	ZCFW200-20	PCA12M							■				2	19.9	5.2	20
WF 610	ZCFW250-03	PCA12M							■				0.3	22.6	6.2	25
WF 611	ZCFW250-05	PCA12M							■				0.5	22.6	6.2	25
WF 612	ZCFW250-10	PCA12M							■				1	22.6	6.2	25
WF 613	ZCFW250-20	PCA12M							■				2	22.6	6.2	25
WF 614	ZCFW320-03	PCA12M							■				0.3	27.2	7.2	32
WF 615	ZCFW320-05	PCA12M							■				0.5	27.2	7.2	32
WF 616	ZCFW320-10	PCA12M							■				1	27.2	7.2	32
WF 617	ZCFW320-20	PCA12M							■				2	27.2	7.2	32

■ = Stock | Germany

PARTS	Clamp Screw	Wrench	Clamp Screw	Wrench
Body	ID-Code	Item-Code	ID-Code	Item-Code
ARPFM-10	ET 154	581-142	ET 11	104-T10
ARPFM-12	ET 155	581-143	ET 14	105-T20
ARPFM-16	ET 156	581-144	ET 14	105-T20
Body	ID-Code	Item-Code	ID-Code	Item-Code
ARPFM-20	ET 157	581-145	ET 9	101-T25S
ARPFM-25	ET 168	581-146	ET 167	105-T30A
ARPFM-32	ET 169	581-147	ET 167	105-T30A

Product Range

Solid Carbide End Mills

Epoch21
MINIATURE

3D-Cut

CARBIDE

Indexable Milling Tools

Indexable
Milling

ESM Speed End Mills
EMC Power Drills

ESM
SPEED

Milling Chucks

Milling
Chucks

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