

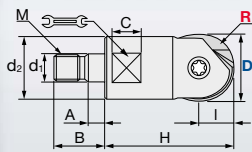


# ABPE Precision Eco Series

## Economical Selection for Precision Series D 8-25

### ABPE/ABPEM | Precision Eco Series

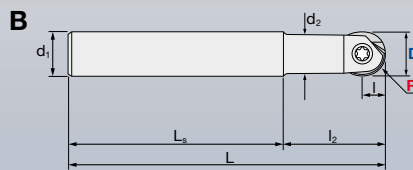
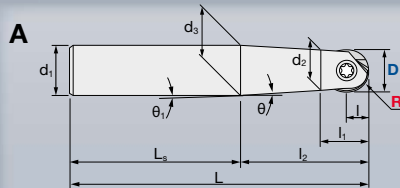
<b>V max</b> High Speed	<b>▽▽</b> Semi Finishing	<b>▽▽▽</b> Finishing	<b>HRC</b> 65	<b>No. of Teeth</b> 2
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R	± 0.01
Set-up	± 0.015

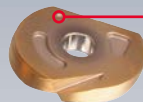
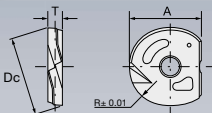
#### ABPEM Ball Precision Eco Modular Type

ID Code	Item Code	Z	D	R	H	I	M	d <sub>1</sub>	d <sub>2</sub>	A	B	C	Wrench
FH249	ABPEM-10	2	10	5	26	5	M6	6.5	9.8	5.5	14.5	5	7
FH250	ABPEM-12		12	6		6							
FH251	ABPEM-16		16	8	8	M8	8.5	12.8	17		8	10	
FH252	ABPEM-20		20	10	10	M10	10.5	17.8	19		10	15	
FH253	ABPEM-25		25	12.5	12.5	M12	12.5	20.8	22		10	17	



#### ABPE Ball Precision Eco Shank Type

ID Code	Item Code	Z	D	R	L	d <sub>1</sub>	I	l <sub>2</sub>	l <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	L <sub>s</sub>	θ	θ <sub>1</sub>	Type
FH238	ABPE-08S10-130-30	2	8	4	130	10	4	30	-	7.3	9.5	100	3.15	2.2	A
FH239	ABPE-10S10-130-30														
FH240	ABPE-10S12-150-35		10	5	150	12	35	-	10.4	-	95	0	-	B	
FH241	ABPE-12S12-130-35		12	6	130	6	60	13	10.4	15.5	100	3	2.12	A	
FH242	ABPE-12S16-160-60		12	6	160	16	60	13	10.4	15.5	100	3	2.12	A	
FH243	ABPE-16S16-140-40		16	8	140	8	40	-	14.3	-	-	0	-	B	
FH244	ABPE-16S20-200-65		16	8	200	20	65	16	14.3	18.5	135	2.45	2.01	A	
FH245	ABPE-20S20-160-45		20	10	160	10	45	-	18	-	115	0	-	B	
FH246	ABPE-20S25-220-80		20	10	220	25	80	20	18	24	140	2.9	2.05	A	
FH247	ABPE-25S25-180-45		25	12.5	180	25	45	-	22.5	-	135	0	-	B	
FH248	ABPE-25S32-250-100	25	12.5	250	32	100	25	22.5	29.5	150	2.7	2.29	A		



**NOTE:**

To keep high-accuracy, please put marked side onto head side of the screw.  
BCHG-Inserts for ABPE cannot be clamped onto ABPF body!

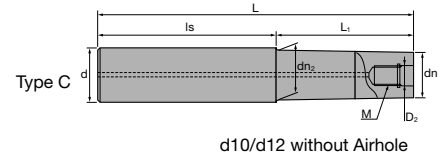
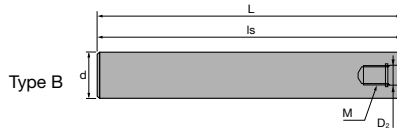
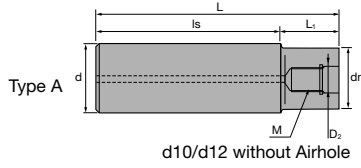
Item Code	Tolerance	Grade		Size			
		JP15E	JP08E	R	A	Dc	T
BCHG080	H class	WF350	WF344	4	9.5	8	2
BCHG100		WF351	WF345	5	11.5	10	2.5
BCHG120		WF352	WF346	6	12	12	2.5
BCHG160		WF353	WF347	8	14	16	3
BCHG200		WF354	WF348	10	16	20	3
BCHG250		WF355	WF349	12.5	21.5	25	4

- JP08E** High adhesion PVD coat + Micro grain substrate  
Target: Tool steel, Hardened steel, Cast iron
- JP15E** High adhesion PVD coat + Micro grain substrate  
Target: Tool steel, Pre-hardened steel, Cast iron

Parts	Clamp Screw			Wrench	
	Diameter	ID Code	Item Code	Torque (Nm)	ID Code
8	ET153	581-141	1.1	ET13	104-T8
10	ET154	581-142	2.2	ET11	104-T10
12	ET155	581-143	4.9	ET14	105-T20
16 & 20	ET156	581-144	4.9	ET14	105-T20
25	ET168	581-146	9.8	ET167	105-T30A

**Indexable Milling Tools**

**ASC | Carbide Shanks** for Modular Mills



**Carbide Shank**

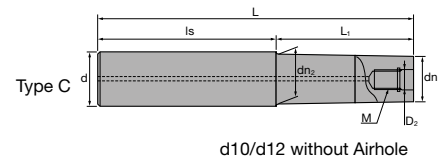
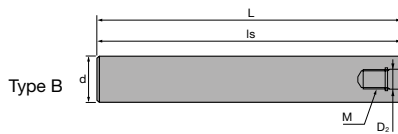
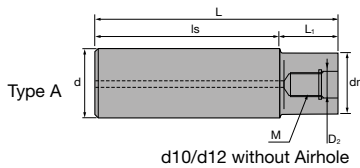
	ID Code	Item Code	D <sub>2</sub>	M	L	L <sub>1</sub>	Is	dn	dn <sub>2</sub>	d	Type					
Without Airhole	FH137	<b>ASC10-6.5-74-24</b>	6.5	M6	74	24	50	9.3	-	10	A					
	FH254	<b>ASC10-6.5-84-34</b>			84	34										
	FH255	<b>ASC10-6.5-114-24</b>			114	24						90				
	FH138	<b>ASC10-6.5-114-49</b>			114	49						65				
	FH139	<b>ASC12-6.5-74-24</b>			74	24	50					11	11.5	12	C	
	FH256	<b>ASC12-6.5-94-44</b>			94	44										
	FH257	<b>ASC12-6.5-129-24</b>			129	24										105
	FH140	<b>ASC12-6.5-129-64</b>			129	64										65
With Airhole	FH141	<b>ASC16-8.5-95-30</b>	8.5	M8	95	30	65	14.5	15.5	16	C					
	FH258	<b>ASC16-8.5-120-55</b>			120	55										
	FH142	<b>ASC16-8.5-140-75</b>			140	75										
	FH260	<b>ASC16-8.5-160-30</b>			160	30										130
	FH259	<b>ASC16-8.5-160-95</b>			160	95						65				
	FH143	<b>ASC20-10.5-120-50</b>	10.5	M10	120	50	70	18	-	20	A					
	FH261	<b>ASC20-10.5-170-90Z</b>			170	90	80	18.5	19.5		C					
	FH144	<b>ASC20-10.5-220-50</b>			220	50	170	18	-		A					
	FH262	<b>ASC20-10.5-220-120Z</b>			220	120	100	18.5	19.5		20	C				
	FH263	<b>ASC20-10.5-270-150Z</b>			270	150	120									
	FH264	<b>ASC20-10.5-270-50Z</b>			270	50	220									
	FH145	<b>ASC25-12.5-145-65</b>	145	65	80	23	-			25			A			
	FH146	<b>ASC25-12.5-265-65</b>	265	65	200											
	FH265	<b>ASC25-12.5-215-115</b>	215	115	100											
	FH266	<b>ASC25-12.5-265-145</b>	265	145	120											
	FH268	<b>ASC25-12.5-315-65</b>	315	65	250											
	FH267	<b>ASC25-12.5-315-195</b>	315	195	120											
	FH147	<b>ASC32-17-160-80</b>	17	M16	160	80	80	28	-	32	A					
FH269	<b>ASC32-17-260-140</b>	260			140	120										
FH148	<b>ASC32-17-310-80</b>	310			80	230										
FH270	<b>ASC32-17-360-240</b>	360			240	120										

- SUPER Lock milling chucks or shrink-fit holders can be used.
- SUPER Lock Aufnahmen oder Schrumpffutter können verwendet werden.
- Possono essere utilizzati mandrini a forte serraggio SUPER Lock.

- Aptos para amarrar en portapinzas SUPER Lock.
- Les attachements SUPER Lock peuvent être utilisés.
- Cones hidráulicos de grande aperto e aperto térmico podem ser usados.

**Indexable Milling Tools**

**AS** | Steel Shanks for Modular Mills



Steel Shank											
	ID Code	Item Code	D <sub>2</sub>	M	L	L <sub>1</sub>	ls	dn	dn <sub>2</sub>	d	Type
Without Airhole	FH131	<b>AS10-6.5-74-0</b>	6.5	M6	74	-	74	-	-	10	B
	FH132	<b>AS12-6.5-84-4</b>			84	4	80	11	-	12	A
With Airhole	FH133	<b>AS16-8.5-95-15</b>	8.5	M8	95	15	80	14.5	15.5	16	A
	FH134	<b>AS20-10.5-100-20</b>	10.5	M10	100	20		18	-	20	
	FH271	<b>AS25-12.5-115-35</b>	12.5	M12	115	35		23	23	25	
	FH272	<b>AS32-17-110-30</b>	17	M16	110	30		28	28	32	

🇬🇧 SUPER Lock milling chucks can be used.

🇪🇸 SUPER Lock Aufnahmen können verwendet werden.

🇮🇹 Possono essere utilizzati mandrini a forte serraggio SUPER Lock.

🇪🇸 Aptos para amarrar en portapinzas SUPER Lock.

🇫🇷 Les attachements SUPER Lock peuvent être utilisés.

🇵🇹 Cones hidráulicos de grande aperto e aperto térmico podem ser usados.

- 🇬🇧 For further information about modular chucks please see our brochure *Indexable Modular Series No. 328.2*
- 🇪🇸 Weitere Informationen über modulare Werkzeugaufnahmen finden Sie in unserem Prospekt: *Indexable Modular Series No. 328.2*
- 🇪🇸 Para obtener más información sobre conos modulares consulte nuestro folleto *Indexable Modular Series No. 328.2*
- 🇮🇹 Per maggiori informazioni riguardanti la gamma dei mandrini avvitabili consultate il catalogo *Indexable Modular Series No. 328.2*
- 🇫🇷 Pour de plus amples informations concernant les attachements modulaires, voyez SVP notre brochure *Indexable Modular Series No. 328.2*
- 🇵🇹 Para mais informações sobre Cones Modulares consulte o nosso folheto *Indexable Modular Series No. 328.2*

