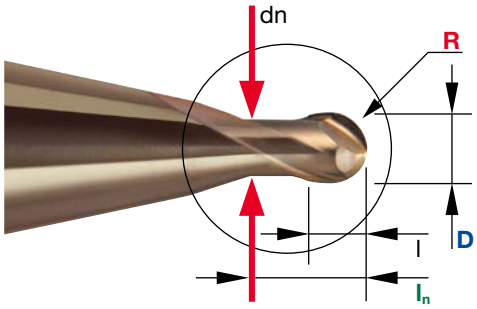
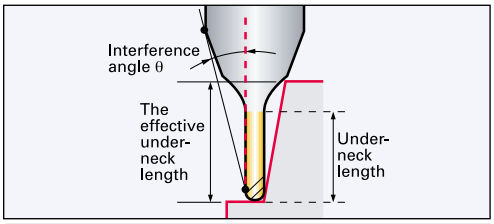
EPSB | Epoch Super Hard Ball





Carbide	TH45+	Rake Angle
Ultra Micro Grain	Nano-PVD Coating	Negative

Helix Angle	R Tol. [mm]	d Tol.
30°	+0.003 / -0.007	h4

Size												The effective under-neck length for the various draft angles				
ID Code	Item Code	Stock	Z	D	R	l_n	l	dn	L	d	Neck R	0.5°	1°	2°	3°	Interference angle θ
MM001	**EPSB-2001N**	■	2	0.1	0.05	-	0.08	-	45	4	1	0.08				11.87
MM022	**EPSB-2001-0.3N**					0.3		0.08				0.46	0.48	0.53	0.57	11.64
MM002	**EPSB-2002N**			0.2	0.1	-	0.15	-				0.15				11.74
MM023	**EPSB-2002-0.6N**					0.6		0.17				0.80	0.83	0.88	0.93	11.30
MM003	**EPSB-2003N**			0.3	0.15	-	0.25	-			2	0.25				11.61
MM024	**EPSB-2003-0.9N**					0.9		0.27				1.21	1.27	1.37	1.47	11.00
MM004	**EPSB-2004N**			0.4	0.2	-	0.3	-				0.30				11.47
MM025	**EPSB-2004-1.2N**					1.2		0.37				1.52	1.59	1.71	1.82	10.69
MM005	**EPSB-2005N**			0.5	0.25	-	0.35	-				0.35				11.33
MM026	**EPSB-2005-1.5N**					1.5		0.47				1.83	1.91	2.05	2.17	10.39
MM006	**EPSB-2006N**			0.6	0.3	-	0.4	-			4	0.40				11.18
MM027	**EPSB-2006-1.8N**					1.8		0.57				2.30	2.44	2.68	2.88	10.08
MM007	**EPSB-2008N**			0.8	0.4	-	0.5	-				0.50				10.88
MM028	**EPSB-2008-2.4N**					2.4		0.77				2.94	3.10	3.36	3.59	9.47
MM008	**EPSB-2010N**			1	0.5	1.5	0.8	0.96		6		2.01	2.12	2.31	2.49	11.00
MM029	**EPSB-2010-3N**					3						3.61	3.78	4.06	4.30	9.88
MM009	**EPSB-2012N**			1.2	0.6	1.8	1.1	1.15				2.36	2.47	2.68	2.86	10.78
MM030	**EPSB-2012-3.6N**					3.6						4.27	4.45	4.75	5.01	9.46
MM010	**EPSB-2015N**			1.5	0.75	2.25	1.35	1.44				2.87	2.99	3.20	3.40	10.43
MM031	**EPSB-2015-4.5N**					4.5						5.24	5.44	5.76	6.04	8.84
MM011	**EPSB-2020N**			2	1	3	1.7	1.92				3.71	3.84	4.07	4.29	9.78
MM032	**EPSB-2020-6N**					6						6.84	7.07	7.43	7.89	7.81

■ = Stock | Germany

If the workpiece has draft angle, the interference length will be longer than the under-neck length.
Please refer to the effective under-neck length for the various draft angles.
In addition, the angle at which the tool will interfere with the workpiece is shown as the “interference angle θ”, and should also be referred to.

THE EFFECT OF FLUTE SHAPE, MATERIAL AND COATING:

DOUBLE-FACE EFFECT OF NEW SHAPE PREVENTS SHAPE FROM DETERIORATING