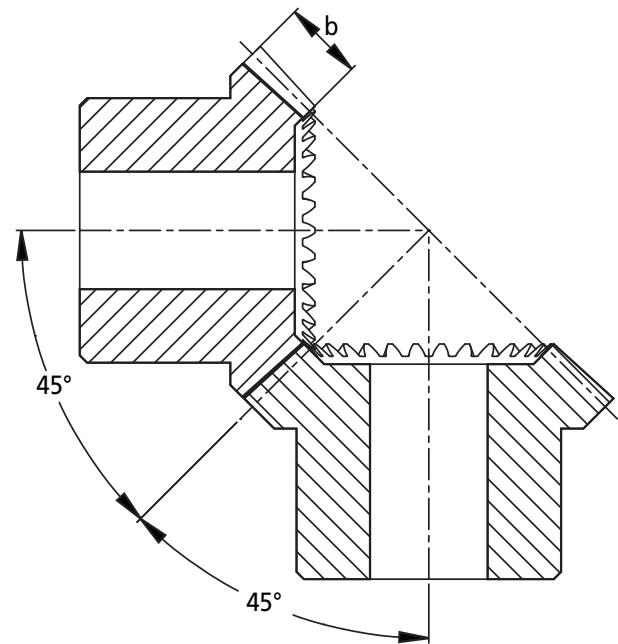
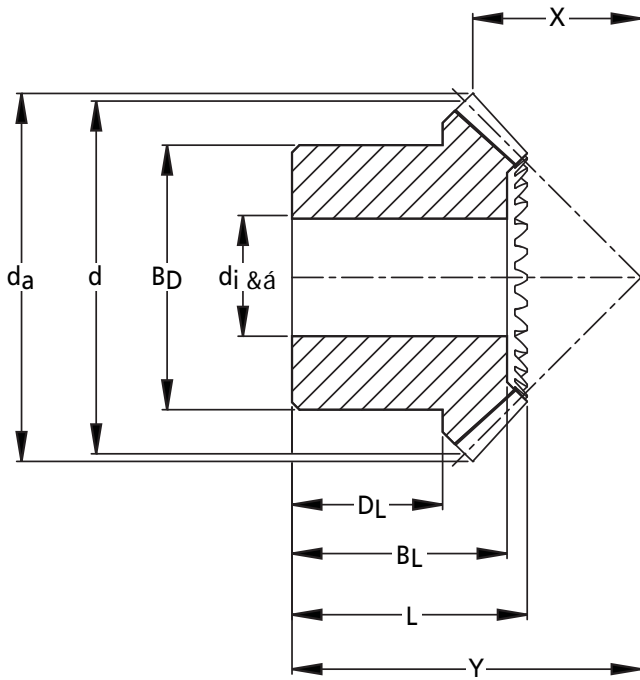


PBG

PRECISION GEARS

Straight Cut Bevel Gears α 20° PA

Quality Grade 7f24 DIN 3985



DIN 3967 Tooth Thickness tol.

Part Number	Ratio	Module m_n	No. of Teeth z	Pitch Dia. d	Outside Dia. d_a	Mounting Distance Y	Face Width b	Bore H7 d_i	Length B_L	Length L	Boss Dia. B_D	Boss Length D_L	Pitch Apex to Crown X
PBG0.6-30	1:1	0.6	30	18	18.85	20	4.0	6	13.0	14.0	12	9	8.58
PBG0.8-30	1:1	0.8	30	24	25.13	25	5.5	8	16.0	17.0	18	10	11.43
PBG1.0-30	1:1	1.0	30	30	31.41	30	7.0	8	18.5	20.0	22	12	14.29
PBG1.5-30	1:1	1.5	30	45	47.12	40	10.0	10	23.0	25.0	35	14	21.44
PBG2.0-30	1:1	2.0	30	60	62.83	50	13.5	12	28.0	30.5	40	15	28.59
PBG4.0-17	1:1	4.0	17	68	73.66	60	16.0	25	34.5	39.0	50	20	31.17

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Product information updated 1st April 2011 and subject to change. Please contact Sales for the latest prices and availability.

PRECISION GEARS

PBG

Straight Cut Bevel Gears α 20° PA

Quality Grade 7f24 DIN 3985

Standard Part **PBG** **0.8** - **30**

Modified Part **PBG** **0.8** - **30** **S** **1:1** **K** **T**

PBG - Precision Straight Tooth Bevel Gear
Quality Grade 7f24 DIN 3985
Other Quality Grades available.
See page 300

m_n Module - Cut with DIN 867 1.25/0.20/1.0

Number of Teeth z

Standard Material = 817M40T (28HRC)
S = 303 Stainless Steel

T = 1 x Tapped hole 2T = 2 x Tapped holes.
P = 1 x Pin Hole PT = 1 x Pin Hole thru.
All threads metric as standard,
refer to page 308 for sizes and prices.

K- Keyway supplied to
DIN 6885 - Js9 tolerance.
For prices see page 308

Ratio

η Efficiency approx. 88%

805M20 Case hardened and 2:1 ratio available, P.O.A.

Mass and inertia values are for individual gear without keyway or tapped/pin hole

Discounts: 6+ -5% 19+ -10% 50+ P.O.A.

817M40T (28HRC)					Stainless 303				
Part Number	T ₂ Nm n ₂ 100min ⁻¹	Mass kg	Inertia kgm ²	Price Each 1 - 5	Part Number	T ₂ Nm n ₂ 100min ⁻¹	Mass kg	Inertia kgm ²	Price Each 1 - 5
PBG0.6-30	0.69	0.012	3.50 x 10 ⁻⁷	£18.08	PBG0.6-30S	0.41	0.012	3.60 x 10 ⁻⁷	£26.21
PBG0.8-30	1.56	0.030	1.71 x 10 ⁻⁶	£21.64	PBG0.8-30S	0.94	0.031	1.75 x 10 ⁻⁶	£31.38
PBG1.0-30	2.95	0.057	4.77 x 10 ⁻⁶	£25.09	PBG1.0-30S	1.77	0.059	4.89 x 10 ⁻⁶	£36.39
PBG1.5-30	8.94	0.181	3.48 x 10 ⁻⁵	£29.88	PBG1.5-30S	5.36	0.186	3.57 x 10 ⁻⁵	£43.32
PBG2.0-30	20.14	0.354	1.16 x 10 ⁻⁴	£37.11	PBG2.0-30S	12.08	0.363	1.19 x 10 ⁻⁴	£53.82
PBG4.0-17	24.62	0.419	1.79 x 10 ⁻⁴	£49.29	PBG4.0-17S	14.77	0.430	1.83 x 10 ⁻⁴	£71.49

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