

GEARS

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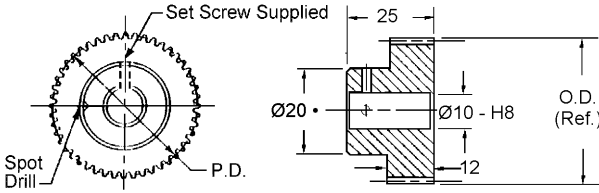
ANTI-BACKLASH WORM GEARS

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SPUR GEARS

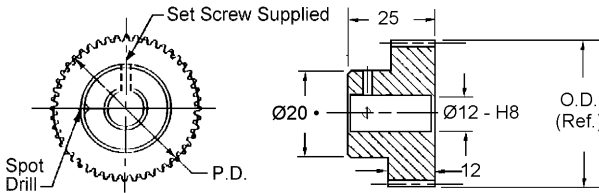
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.5	PIN HUB	10	12	STAINLESS STEEL DIN 1.4305	DIN 8/AGMA 9	20°



STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PAS87-18	18	27.00	30.00
PAS87-20	20	30.00	33.00
PAS87-24	24	36.00	39.00
PAS87-28	28	42.00	45.00
PAS87-30	30	45.00	48.00
PAS87-32	32	48.00	51.00
PAS87-36	36	54.00	57.00
PAS87-40	40	60.00	63.00
PAS87-48	48	72.00	75.00
PAS87-56	56	84.00	87.00
PAS87-64	64	96.00	99.00

- For 13-15 teeth hub diameter is 15.7
- Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.5	PIN HUB	12	12	STAINLESS STEEL DIN 1.4305	DIN 8/AGMA 9	20°



STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PAS89-18	18	27.00	30.00
PAS89-20	20	30.00	33.00
PAS89-24	24	36.00	39.00
PAS89-28	28	42.00	45.00
PAS89-30	30	45.00	48.00
PAS89-32	32	48.00	51.00
PAS89-36	36	54.00	57.00
PAS89-40	40	60.00	63.00
PAS89-48	48	72.00	75.00
PAS89-56	56	84.00	87.00
PAS89-64	64	96.00	99.00

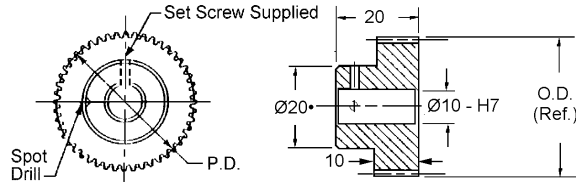
- For 15 teeth hub diameter equals 18.0
- Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

**Other bore sizes, styles and materials available.
Check our website or call us.**

**For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.**

SPUR GEARS

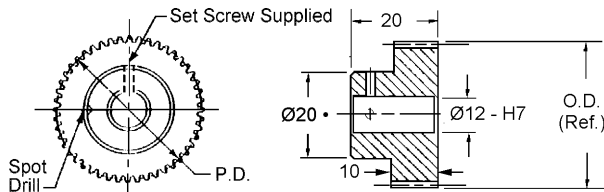
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.25	PIN HUB	10	10	STAINLESS STEEL DIN 1.4305	DIN 7/AGMA 10	20°



- For 15-18 teeth hub diameter equals 15.6
- Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PBS86-15	15•	18.75	21.25
PBS86-16	16•	20.00	22.50
PBS86-18	18•	22.50	25.00
PBS86-20	20	25.00	27.50
PBS86-24	24	30.00	32.50
PBS86-25	25	31.25	33.75
PBS86-28	28	35.00	37.50
PBS86-30	30	37.50	40.00
PBS86-35	35	43.75	46.25
PBS86-36	36	45.00	47.50
PBS86-40	40	50.00	52.50
PBS86-45	45	56.25	58.75
PBS86-48	48	60.00	62.50
PBS86-50	50	62.50	65.00
PBS86-56	56	70.00	72.50
PBS86-60	60	75.00	77.50
PBS86-70	70	87.50	90.00
PBS86-72	72	90.00	92.50
PBS86-80	80	100.00	102.50
PBS86-84	84	105.00	107.50

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.25	PIN HUB	12	10	STAINLESS STEEL DIN 1.4305	DIN 7/AGMA 10	20°



STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PBS88-24	24	30.00	32.50
PBS88-25	25	31.25	33.75
PBS88-30	30	37.50	40.00
PBS88-35	35	43.75	46.25
PBS88-40	40	50.00	52.50
PBS88-45	45	56.25	58.75
PBS88-50	50	62.50	65.00
PBS88-60	60	75.00	77.50
PBS88-70	70	87.50	90.00
PBS88-80	80	100.00	102.50

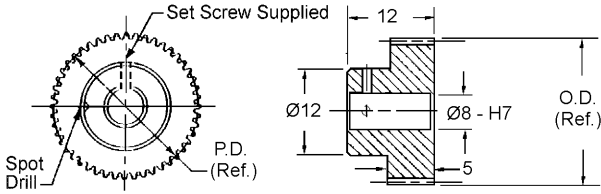
- For 12-13 teeth hub diameter is 16.3
- Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

**Other bore sizes, styles and materials available.
Check our website or call us.**

**For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.**

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.0	PIN HUB	8	5	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PCS95-15	PCA95-15	15	15.00	17.00
PCS95-16	PCA95-16	16	16.00	18.00
PCS95-18	PCA95-18	18	18.00	20.00
PCS95-20	PCA95-20	20	20.00	22.00
PCS95-21	PCA95-21	21	21.00	23.00
PCS95-22	PCA95-22	22	22.00	24.00
PCS95-24	PCA95-24	24	24.00	26.00
PCS95-27	PCA95-27	27	27.00	29.00
PCS95-30	PCA95-30	30	30.00	32.00
PCS95-33	PCA95-33	33	33.00	35.00
PCS95-36	PCA95-36	36	36.00	38.00
PCS95-39	PCA95-39	39	39.00	41.00
PCS95-42	PCA95-42	42	42.00	44.00
PCS95-45	PCA95-45	45	45.00	47.00
PCS95-48	PCA95-48	48	48.00	50.00
PCS95-51	PCA95-51	51	51.00	53.00
PCS95-54	PCA95-54	54	54.00	56.00
PCS95-57	PCA95-57	57	57.00	59.00
PCS95-60	PCA95-60	60	60.00	62.00
PCS95-63	PCA95-63	63	63.00	65.00
PCS95-66	PCA95-66	66	66.00	68.00
PCS95-69	PCA95-69	69	69.00	71.00
PCS95-72	PCA95-72	72	72.00	74.00
PCS95-75	PCA95-75	75	75.00	77.00
PCS95-78	PCA95-78	78	78.00	80.00
PCS95-81	PCA95-81	81	81.00	83.00
PCS95-84	PCA95-84	84	84.00	86.00
PCS95-87	PCA95-87	87	87.00	89.00
PCS95-90	PCA95-90	90	90.00	92.00
PCS95-93	PCA95-93	93	93.00	95.00
PCS95-96	PCA95-96	96	96.00	98.00

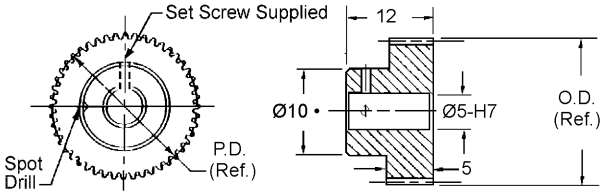
Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle;
Quality Class AGMA 12 and 14 / DIN 5 and 3

**Other bore sizes, styles and materials available.
Check our website or call us.**

**For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.**

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	PIN HUB	5	5	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



B

STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PDS83-15	PDA83-15	15	12.00	13.60
PDS83-16	PDA83-16	16	12.80	14.40
PDS83-17	PDA83-17	17	13.60	15.20
PDS83-18	PDA83-18	18	14.40	16.00
PDS83-20	PDA83-20	20	16.00	17.60
PDS83-22	PDA83-22	22	17.60	19.20
PDS83-24	PDA83-24	24	19.20	20.80
PDS83-26	PDA83-26	26	20.80	22.40
PDS83-28	PDA83-28	28	22.40	24.00
PDS83-30	PDA83-30	30	24.00	25.60
PDS83-32	PDA83-32	32	25.60	27.20
PDS83-36	PDA83-36	36	28.80	30.40
PDS83-40	PDA83-40	40	32.00	33.60
PDS83-48	PDA83-48	48	38.40	40.00
PDS83-52	PDA83-52	52	41.60	43.20
PDS83-56	PDA83-56	56	44.80	46.40
PDS83-60	PDA83-60	60	48.00	49.60
PDS83-64	PDA83-64	64	51.20	52.80
PDS83-68	PDA83-68	68	54.40	56.00
PDS83-72	PDA83-72	72	57.60	59.20
PDS83-80	PDA83-80	80	64.00	65.60
PDS83-84	PDA83-84	84	67.20	68.80
PDS83-88	PDA83-88	88	70.40	72.00
PDS83-92	PDA83-92	92	73.60	75.20
PDS83-96	PDA83-96	96	76.80	78.40
PDS83-100	PDA83-100	100	80.00	81.60
PDS83-104	PDA83-104	104	83.20	84.80
PDS83-108	PDA83-108	108	86.40	88.00
PDS83-112	PDA83-112	112	89.60	91.20
PDS83-116	PDA83-116	116	92.80	94.40
PDS83-120	PDA83-120	120	96.00	97.60
PDS83-128	PDA83-128	128	102.40	104.00

Available on request:

Other numbers of teeth;

14 - 1/2° pressure angle;

Quality Class AGMA 12 and 14 / DIN 5 and 3

• For 13-15 teeth hub diameter equals 8.3

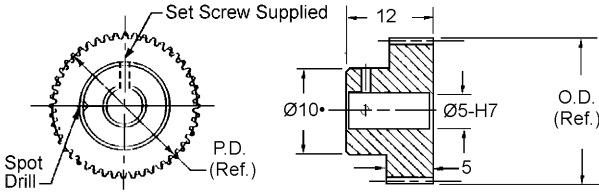
**Other bore sizes, styles and materials available.
Check our website or call us.**

For Couplings See Section MG.

For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.6	PIN HUB	5	5	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PES83-18	PEA83-18	18•	10.80	12.00
PES83-20	PEA83-20	20	12.00	13.20
PES83-22	PEA83-22	22	13.20	14.40
PES83-24	PEA83-24	24	14.40	15.60
PES83-25	PEA83-25	25	15.00	16.20
PES83-26	PEA83-26	26	15.60	16.80
PES83-28	PEA83-28	28	16.80	18.00
PES83-30	PEA83-30	30	18.00	19.20
PES83-32	PEA83-32	32	19.20	20.40
PES83-36	PEA83-36	36	21.60	22.80
PES83-40	PEA83-40	40	24.00	25.20
PES83-42	PEA83-42	42	25.20	26.40
PES83-45	PEA83-45	45	27.00	28.20
PES83-48	PEA83-48	48	28.80	30.00
PES83-50	PEA83-50	50	30.00	31.20
PES83-54	PEA83-54	54	32.40	33.60
PES83-56	PEA83-56	56	33.60	34.80
PES83-60	PEA83-60	60	36.00	37.20
PES83-64	PEA83-64	64	38.40	39.60
PES83-70	PEA83-70	70	42.00	43.20
PES83-72	PEA83-72	72	43.20	44.40
PES83-75	PEA83-75	75	45.00	46.20
PES83-76	PEA83-76	76	45.60	46.80
PES83-80	PEA83-80	80	48.00	49.20
PES83-88	PEA83-88	88	52.80	54.00
PES83-90	PEA83-90	90	54.00	55.20
PES83-96	PEA83-96	96	57.60	58.80
PES83-100	PEA83-100	100	60.00	61.20
PES83-110	PEA83-110	110	66.00	67.20
PES83-120	PEA83-120	120	72.00	73.20
PES83-124	PEA83-124	124	74.40	75.60
PES83-128	PEA83-128	128	76.80	78.00

Available on request:

Other numbers of teeth;

14 - 1/2° pressure angle;

Quality Class AGMA 12 and 14 / DIN 5 and 3

• For 16-18 teeth hub diameter equals 8.0

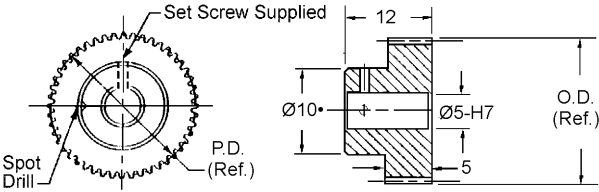
**Other bore sizes, styles and materials available.
Check our website or call us.**

For Couplings See Section MG.

For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	PIN HUB	5	5	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



B

STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PFS83-20	PFA83-20	20•	10.00	11.00
PFS83-21	PFA83-21	21•	10.50	11.50
PFS83-22	PFA83-22	22•	11.00	12.00
PFS83-23	PFA83-23	23	11.50	12.50
PFS83-24	PFA83-24	24	12.00	13.00
PFS83-25	PFA83-25	25	12.50	13.50
PFS83-28	PFA83-28	28	14.00	15.00
PFS83-30	PFA83-30	30	15.00	16.00
PFS83-32	PFA83-32	32	16.00	17.00
PFS83-34	PFA83-34	34	17.00	18.00
PFS83-36	PFA83-36	36	18.00	19.00
PFS83-40	PFA83-40	40	20.00	21.00
PFS83-42	PFA83-42	42	21.00	22.00
PFS83-46	PFA83-46	46	23.00	24.00
PFS83-48	PFA83-48	48	24.00	25.00
PFS83-50	PFA83-50	50	25.00	26.00
PFS83-60	PFA83-60	60	30.00	31.00
PFS83-64	PFA83-64	64	32.00	33.00
PFS83-70	PFA83-70	70	35.00	36.00
PFS83-72	PFA83-72	72	36.00	37.00
PFS83-80	PFA83-80	80	40.00	41.00
PFS83-84	PFA83-84	84	42.00	43.00
PFS83-90	PFA83-90	90	45.00	46.00
PFS83-96	PFA83-96	96	48.00	49.00
PFS83-105	PFA83-105	105	52.50	53.50
PFS83-120	PFA83-120	120	60.00	61.00
PFS83-132	PFA83-132	132	66.00	67.00
PFS83-144	PFA83-144	144	72.00	73.00
PFS83-156	PFA83-156	156	78.00	79.00
PFS83-190	PFA83-190	190	95.00	96.00
PFS83-192	PFA83-192	192	96.00	97.00

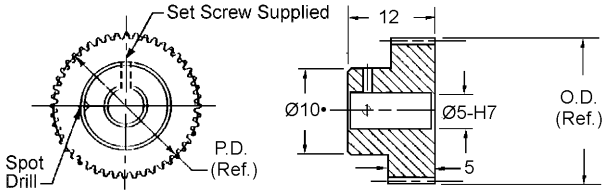
Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle;
Quality Class AGMA 12 and 14 / DIN 5 and 3
• For 20-22 teeth hub diameter equals 8.1

Other bore sizes, styles and materials available.
Check our website or call us.

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	PIN HUB	5	5	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PGS83-24	PGA83-24	24•	9.60	10.40
PGS83-25	PGA83-25	25•	10.00	10.80
PGS83-26	PGA83-26	26•	10.40	11.20
PGS83-28	PGA83-28	28	11.20	12.00
PGS83-30	PGA83-30	30	12.00	12.80
PGS83-32	PGA83-32	32	12.80	13.60
PGS83-36	PGA83-36	36	14.40	15.20
PGS83-40	PGA83-40	40	16.00	16.80
PGS83-44	PGA83-44	44	17.60	18.40
PGS83-46	PGA83-46	46	18.40	19.20
PGS83-48	PGA83-48	48	19.20	20.00
PGS83-50	PGA83-50	50	20.00	20.80
PGS83-56	PGA83-56	56	22.40	23.20
PGS83-60	PGA83-60	60	24.00	24.80
PGS83-64	PGA83-64	64	25.60	26.40
PGS83-70	PGA83-70	70	28.00	28.80
PGS83-75	PGA83-75	75	30.00	30.80
PGS83-80	PGA83-80	80	32.00	32.80
PGS83-88	PGA83-88	88	35.20	36.00
PGS83-90	PGA83-90	90	36.00	36.80
PGS83-96	PGA83-96	96	38.40	39.20
PGS83-100	PGA83-100	100	40.00	40.80
PGS83-110	PGA83-110	110	44.00	44.80
PGS83-112	PGA83-112	112	44.80	45.60
PGS83-120	PGA83-120	120	48.00	48.80
PGS83-128	PGA83-128	128	51.20	52.00
PGS83-136	PGA83-136	136	54.40	55.20
PGS83-144	PGA83-144	144	57.60	58.40
PGS83-152	PGA83-152	152	60.80	61.60
PGS83-160	PGA83-160	160	64.00	64.80
PGS83-176	PGA83-176	176	70.40	71.20
PGS83-192	PGA83-192	192	76.80	77.60
PGS83-200	PGA83-200	200	80.00	80.80
PGS83-208	PGA83-208	208	83.20	84.00
PGS83-224	PGA83-224	224	89.60	90.40
PGS83-240	PGA83-240	240	96.00	96.80
PGS83-256	PGA83-256	256	102.40	103.20

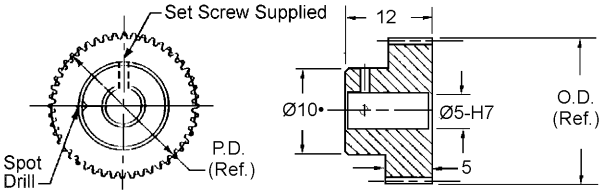
Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle;
Quality Class AGMA 12 and 14 / DIN 5 and 3
• For 24-27 teeth hub diameter equals 8.1

**Other bore sizes, styles and materials available.
Check our website or call us.**

**For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.**

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.3	PIN HUB	5	5	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



B

STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PHS83-30	PHA83-30	30•	9.00	9.60
PHS83-32	PHA83-32	32•	9.60	10.20
PHS83-34	PHA83-34	34•	10.20	10.80
PHS83-36	PHA83-36	36•	10.80	11.40
PHS83-38	PHA83-38	38	11.40	12.00
PHS83-40	PHA83-40	40	12.00	12.60
PHS83-42	PHA83-42	42	12.60	13.20
PHS83-44	PHA83-44	44	13.20	13.80
PHS83-46	PHA83-46	46	13.80	14.40
PHS83-48	PHA83-48	48	14.40	15.00
PHS83-50	PHA83-50	50	15.00	15.60
PHS83-54	PHA83-54	54	16.20	16.80
PHS83-56	PHA83-56	56	16.80	17.40
PHS83-60	PHA83-60	60	18.00	18.60
PHS83-63	PHA83-63	63	18.90	19.50
PHS83-64	PHA83-64	64	19.20	19.80
PHS83-70	PHA83-70	70	21.00	21.60
PHS83-72	PHA83-72	72	21.60	22.20
PHS83-80	PHA83-80	80	24.00	24.60
PHS83-90	PHA83-90	90	27.00	27.60
PHS83-96	PHA83-96	96	28.80	29.40
PHS83-100	PHA83-100	100	30.00	30.60
PHS83-105	PHA83-105	105	31.50	32.10
PHS83-108	PHA83-108	108	32.40	33.00
PHS83-144	PHA83-144	144	43.20	43.80

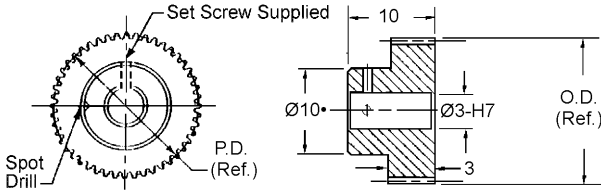
Available on request:
 Other numbers of teeth;
 14 - 1/2° pressure angle;
 Quality Class AGMA 12 and 14 / DIN 5 and 3
 • For 30-36 teeth hub diameter equals 8.1

Other bore sizes, styles and materials available.
 Check our website or call us.

For Couplings See Section MG.
 For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.25	PIN HUB	3	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PJS80-32	PJA80-32	32•	8.00	8.50
PJS80-34	PJA80-34	34•	8.50	9.00
PJS80-35	PJA80-35	35•	8.75	9.25
PJS80-36	PJA80-36	36•	9.00	9.50
PJS80-38	PJA80-38	38•	9.50	10.00
PJS80-39	PJA80-39	39•	9.75	10.25
PJS80-40	PJA80-40	40•	10.00	10.50
PJS80-42	PJA80-42	42•	10.50	11.00
PJS80-44	PJA80-44	44	11.00	11.50
PJS80-46	PJA80-46	46	11.50	12.00
PJS80-47	PJA80-47	47	11.75	12.25
PJS80-48	PJA80-48	48	12.00	12.50
PJS80-50	PJA80-50	50	12.50	13.00
PJS80-52	PJA80-52	52	13.00	13.50
PJS80-54	PJA80-54	54	13.50	14.00
PJS80-56	PJA80-56	56	14.00	14.50
PJS80-58	PJA80-58	58	14.50	15.00
PJS80-60	PJA80-60	60	15.00	15.50
PJS80-62	PJA80-62	62	15.50	16.00
PJS80-64	PJA80-64	64	16.00	16.50
PJS80-65	PJA80-65	65	16.25	16.75
PJS80-67	PJA80-67	67	16.75	17.25
PJS80-70	PJA80-70	70	17.50	18.00
PJS80-72	PJA80-72	72	18.00	18.50
PJS80-74	PJA80-74	74	18.50	19.00
PJS80-75	PJA80-75	75	18.75	19.25
PJS80-80	PJA80-80	80	20.00	20.50
PJS80-84	PJA80-84	84	21.00	21.50
PJS80-88	PJA80-88	88	22.00	22.50
PJS80-90	PJA80-90	90	22.50	23.00
PJS80-96	PJA80-96	96	24.00	24.50
PJS80-100	PJA80-100	100	25.00	25.50
PJS80-105	PJA80-105	105	26.25	26.75
PJS80-127	PJA80-127	127	31.75	32.25
PJS80-144	PJA80-144	144	36.00	36.50
PJS80-156	PJA80-156	156	39.00	39.50
PJS80-168	PJA80-168	168	42.00	42.50

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle;
Quality Class AGMA 12 and 14 / DIN 5 and 3
• For 25-42 teeth hub diameter equals 5.5

**Other bore sizes, styles and materials available.
Check our website or call us.**

**For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.**

PRECISION WORMS

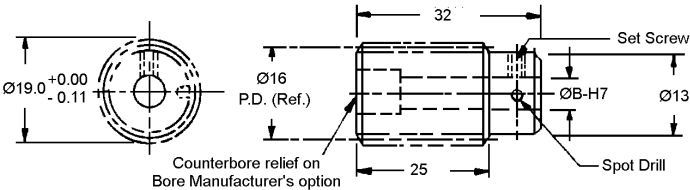
MODULE	STYLE	BORE	MATERIAL	QUALITY	TYPE
1.5	SINGLE, DOUBLE OR FOUR THREAD	7	STAINLESS STEEL DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	B	THREAD	LEAD	LEAD ANGLE	PRESSURE ANGLE
WAS-7S	7	SINGLE	4.712	5° 21'	14-1/2°
WAS-7D		DOUBLE	9.425	10° 37'	14-1/2°
WAS-7F		FOUR	18.850	20° 33'	20°

B

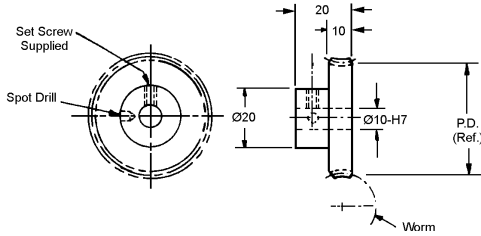
MODULE	STYLE	BORE	MATERIAL	QUALITY	TYPE
1.5	SINGLE, DOUBLE OR FOUR THREAD	8	STAINLESS STEEL DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	B	THREAD	LEAD	LEAD ANGLE	PRESSURE ANGLE
WAS-8S	8	SINGLE	4.712	5° 21'	14-1/2°
WAS-8D		DOUBLE	9.425	10° 37'	14-1/2°
WAS-8F		FOUR	18.850	20° 33'	20°



PRECISION WORM GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
1.5	SINGLE, DOUBLE OR FOUR THREAD PIN HUB	10	10	464 BRASS ALLOY	DIN 7/AGMA 10	RIGHT HAND

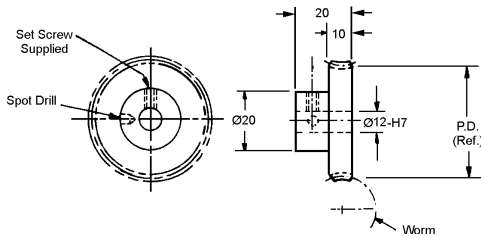


SINGLE THREAD WORM		DOUBLE THREAD WORM		FOUR THREAD WORM		NO. OF TEETH	PITCH DIA.
Circular Pitch	4.712	Circular Pitch	9.425	Circular Pitch	18.850		
Helix Angle	5° 21'	Helix Angle	10° 37'	Helix Angle	20° 33'		
Pressure Angle	14-1/2°	Pressure Angle	14-1/2°	Pressure Angle	20°		
STOCK NO.		STOCK NO.		STOCK NO.			
WAB86-S20		WAB86-D20		WAB86-F20		20	30.00
WAB86-S30		WAB86-D30		WAB86-F30		30	45.00
WAB86-S40		WAB86-D40		WAB86-F40		40	80.00
WAB86-S50		WAB86-D50		WAB86-F50		50	75.00
WAB86-S60		WAB86-D60		WAB86-F60		60	90.00
WAB86-S80		WAB86-D80		WAB86-F80		80	120.00
WAB86-S100		WAB86-D100		WAB86-F100		100	150.00

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

May be two piece construction. Hub diameter never exceeds O.D.
Other number of teeth AGMA 12 or 14 / DIN 5 or 3 available on request.

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
1.5	SINGLE, DOUBLE OR FOUR THREAD PIN HUB	12	10	464 BRASS ALLOY	DIN 7/AGMA 10	RIGHT HAND



SINGLE THREAD WORM		DOUBLE THREAD WORM		FOUR THREAD WORM		NO. OF TEETH	PITCH DIA.
Circular Pitch	4.712	Circular Pitch	9.425	Circular Pitch	18.850		
Helix Angle	5° 21'	Helix Angle	10° 37'	Helix Angle	20° 33'		
Pressure Angle	14-1/2°	Pressure Angle	14-1/2°	Pressure Angle	20°		
STOCK NO.		STOCK NO.		STOCK NO.			
WAB88-S20		WAB88-D20		WAB88-F20		20	30.00
WAB88-S30		WAB88-D30		WAB88-F30		30	45.00
WAB88-S40		WAB88-D40		WAB88-F40		40	80.00
WAB88-S50		WAB88-D50		WAB88-F50		50	75.00
WAB88-S60		WAB88-D60		WAB88-F60		60	90.00
WAB88-S80		WAB88-D80		WAB88-F80		80	120.00
WAB88-S100		WAB88-D100		WAB88-F100		100	150.00

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

May be two piece construction. Hub diameter never exceeds O.D.
Other number of teeth AGMA 12 or 14 / DIN 5 or 3 available on request.

PRECISION WORMS

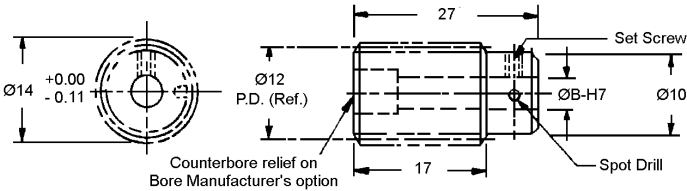
MODULE	STYLE	BORE	MATERIAL	QUALITY	TYPE
1.0	SINGLE, DOUBLE OR FOUR THREAD	7	STAINLESS STEEL DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	B	THREAD	LEAD	LEAD ANGLE	PRESSURE ANGLE
WCS-7S	7	SINGLE	3.142	4° 45'	14-1/2°
WCS-7D		DOUBLE	6.283	9° 27'	20°
WCS-7F		FOUR	12.566	18° 26'	25°

B

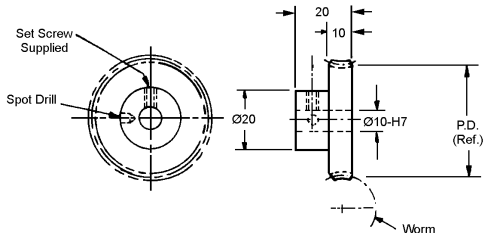
MODULE	STYLE	BORE	MATERIAL	QUALITY	TYPE
1.0	SINGLE, DOUBLE OR FOUR THREAD	6	STAINLESS STEEL DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	B	THREAD	LEAD	LEAD ANGLE	PRESSURE ANGLE
WCS-8S	6	SINGLE	3.142	4° 45'	14-1/2°
WCS-8D		DOUBLE	6.283	9° 27'	20°
WCS-8F		FOUR	12.566	18° 26'	25°



PRECISION WORM GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
1.0	SINGLE, DOUBLE OR FOUR THREAD PIN HUB	10	10	464 BRASS ALLOY	DIN 7/AGMA 10	RIGHT HAND

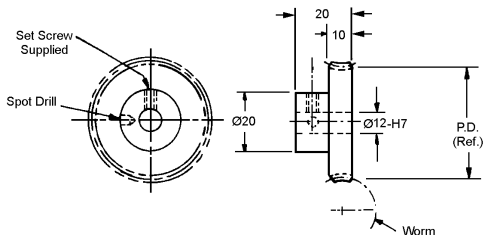


SINGLE THREAD WORM		DOUBLE THREAD WORM		FOUR THREAD WORM		NO. OF TEETH	PITCH DIA.
Circular Pitch	3.142	Circular Pitch	6.283	Circular Pitch	12.566		
Helix Angle	4° 45'	Helix Angle	9° 27'	Helix Angle	18° 26'		
Pressure Angle	14-1/2°	Pressure Angle	20°	Pressure Angle	25°		
STOCK NO.		STOCK NO.		STOCK NO.			
WCB86-S20		WCB86-D20		WCB86-F20		20	20.00
WCB86-S30		WCB86-D30		WCB86-F30		30	30.00
WCB86-S40		WCB86-D40		WCB86-F40		40	40.00
WCB86-S50		WCB86-D50		WCB86-F50		50	50.00
WCB86-S60		WCB86-D60		WCB86-F60		60	60.00
WCB86-S72		WCB86-D72		WCB86-F72		72	72.00
WCB86-S80		WCB86-D80		WCB86-F80		80	80.00
WCB86-S96		WCB86-D96		WCB86-F96		96	96.00
WCB86-S100		WCB86-D100		WCB86-F100		100	100.00

$$\text{Ratio} = \frac{\text{\# of Teeth}}{\text{Worm Threads}}$$

Other number of teeth AGMA 12 or 14 / DIN 5 or 3 available on request.

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
1.0	SINGLE, DOUBLE OR FOUR THREAD PIN HUB	12	10	464 BRASS ALLOY	DIN 7/AGMA 10	RIGHT HAND



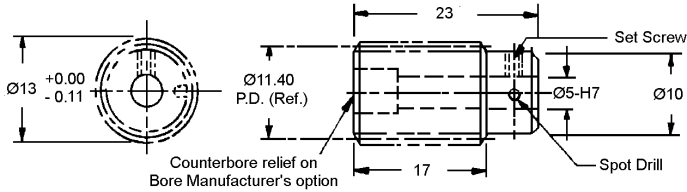
SINGLE THREAD WORM		DOUBLE THREAD WORM		FOUR THREAD WORM		NO. OF TEETH	PITCH DIA.
Circular Pitch	3.142	Circular Pitch	6.283	Circular Pitch	12.566		
Helix Angle	4° 45'	Helix Angle	9° 27'	Helix Angle	18° 26'		
Pressure Angle	14-1/2°	Pressure Angle	20°	Pressure Angle	25°		
STOCK NO.		STOCK NO.		STOCK NO.			
WCB88-S20		WCB88-D20		WCB88-F20		20	20.00
WCB88-S30		WCB88-D30		WCB88-F30		30	30.00
WCB88-S40		WCB88-D40		WCB88-F40		40	40.00
WCB88-S50		WCB88-D50		WCB88-F50		50	50.00
WCB88-S60		WCB88-D60		WCB88-F60		60	60.00
WCB88-S72		WCB88-D72		WCB88-F72		72	72.00
WCB88-S80		WCB88-D80		WCB88-F80		80	80.00
WCB88-S96		WCB88-D96		WCB88-F96		96	96.00
WCB88-S100		WCB88-D100		WCB88-F100		100	100.00

$$\text{Ratio} = \frac{\text{\# of Teeth}}{\text{Worm Threads}}$$

Other number of teeth AGMA 12 or 14 / DIN 5 or 3 available on request.

PRECISION WORMS

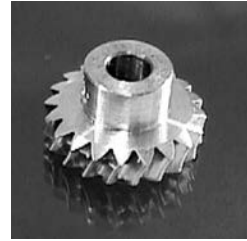
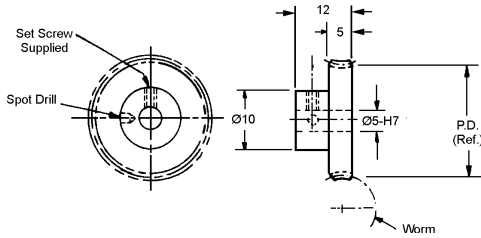
MODULE	STYLE	BORE	MATERIAL	QUALITY	TYPE
0.8	SINGLE, DOUBLE OR FOUR THREAD	5	STAINLESS STEEL DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND



STOCK NO.	THREAD	LEAD	LEAD ANGLE	PRESSURE ANGLE
WDS-5S	SINGLE	3.142	4° 45'	14-1/2°
WDS-5D	DOUBLE	6.283	9° 27'	20°
WDS-5F	FOUR	12.566	18° 26'	25°

PRECISION WORM GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.8	SINGLE, DOUBLE OR FOUR THREAD PIN HUB	5	5	464 BRASS ALLOY	DIN 7/AGMA 10	RIGHT HAND

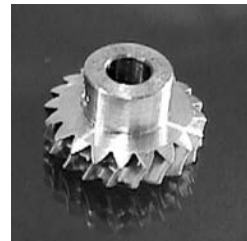
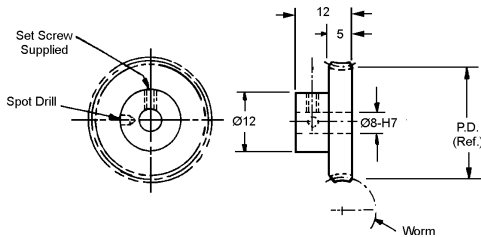


SINGLE THREAD WORM		DOUBLE THREAD WORM		FOUR THREAD WORM		NO. OF TEETH	PITCH DIA.
Circular Pitch	2.513	Circular Pitch	5.027	Circular Pitch	10.053		
Helix Angle	4° - 0'	Helix Angle	7° - 59'	Helix Angle	15° - 40'		
Pressure Angle	14-1/2°	Pressure Angle	20°	Pressure Angle	25°		
STOCK NO.		STOCK NO.		STOCK NO.			
WDB83-S20		WDB83-D20		WDB83-F20		20	16.00
WDB83-S30		WDB83-D30		WDB83-F30		30	24.00
WDB83-S40		WDB83-D40		WDB83-F40		40	32.00
WDB83-S50		WDB83-D50		WDB83-F50		50	40.00
WDB83-S60		WDB83-D60		WDB83-F60		60	48.00
WDB83-S80		WDB83-D80		WDB83-F80		80	64.00
WDB83-S96		WDB83-D96		WDB83-F96		96	76.80
WDB83-S100		WDB83-D100		WDB83-F100		100	80.00

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

May be two piece construction. Hub diameter never exceeds O.D.
Other number of teeth AGMA 12 or 14 / DIN 5 or 3 available on request.

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.8	SINGLE, DOUBLE OR FOUR THREAD PIN HUB	8	5	464 BRASS ALLOY	DIN 7/AGMA 10	RIGHT HAND



SINGLE THREAD WORM		DOUBLE THREAD WORM		FOUR THREAD WORM		NO. OF TEETH	PITCH DIA.
Circular Pitch	2.513	Circular Pitch	5.027	Circular Pitch	10.053		
Helix Angle	4° - 0'	Helix Angle	7° - 59'	Helix Angle	15° - 40'		
Pressure Angle	14-1/2°	Pressure Angle	20°	Pressure Angle	25°		
STOCK NO.		STOCK NO.		STOCK NO.			
WDB95-S20		WDB95-D20		WDB95-F20		20	16.00
WDB95-S30		WDB95-D30		WDB95-F30		30	24.00
WDB95-S40		WDB95-D40		WDB95-F40		40	32.00
WDB95-S50		WDB95-D50		WDB95-F50		50	40.00
WDB95-S60		WDB95-D60		WDB95-F60		60	48.00
WDB95-S80		WDB95-D80		WDB95-F80		80	64.00
WDB95-S96		WDB95-D96		WDB95-F96		96	76.80
WDB95-S100		WDB95-D100		WDB95-F100		100	80.00

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

May be two piece construction. Hub diameter never exceeds O.D.
Other number of teeth AGMA 12 or 14 / DIN 5 or 3 available on request.

PRECISION WORMS

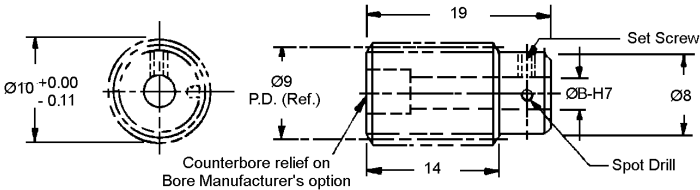
MODULE	STYLE	BORE	MATERIAL	QUALITY	TYPE
0.5	SINGLE, DOUBLE OR FOUR THREAD	3	STAINLESS STEEL DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	THREAD	LEAD	LEAD ANGLE	PRESSURE ANGLE
WFS-3S	SINGLE	1.571	3° 10'	14-1/2°
WFS-3D	DOUBLE	3.142	6° 20'	20°
WFS-3F	FOUR	6.283	12° 31'	25°

B

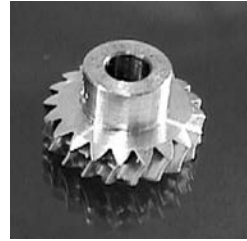
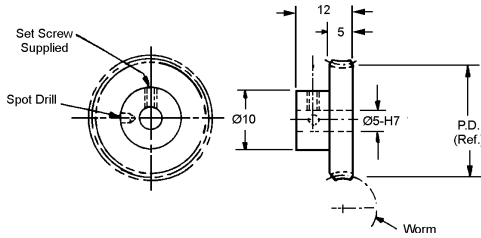
MODULE	STYLE	BORE	MATERIAL	QUALITY	TYPE
0.5	SINGLE, DOUBLE OR FOUR THREAD	5	STAINLESS STEEL DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	THREAD	LEAD	LEAD ANGLE	PRESSURE ANGLE
WFS-5S	SINGLE	1.571	3° 10'	14-1/2°
WFS-5D	DOUBLE	3.142	6° 20'	20°
WFS-5F	FOUR	6.283	12° 31'	25°



PRECISION WORM GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.5	SINGLE, DOUBLE OR FOUR THREAD PIN HUB	5	5	464 BRASS ALLOY	DIN 7/AGMA 10	RIGHT HAND

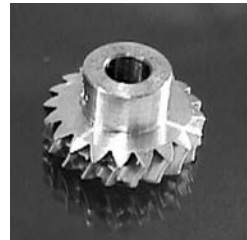
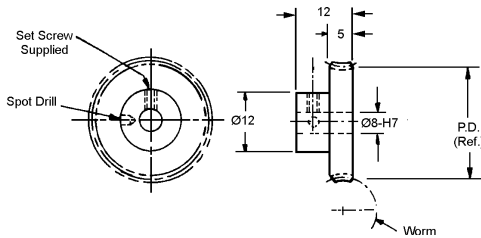


SINGLE THREAD WORM		DOUBLE THREAD WORM		FOUR THREAD WORM		NO. OF TEETH	PITCH DIA.
Circular Pitch	1.571	Circular Pitch	3.142	Circular Pitch	6.283		
Helix Angle	3° 10'	Helix Angle	6° 20'	Helix Angle	12° 31'		
Pressure Angle	14-1/2°	Pressure Angle	20°	Pressure Angle	25°		
STOCK NO.		STOCK NO.		STOCK NO.			
WFB83-S30		WFB83-D30		WFB83-F30		30	15.00
WFB83-S40		WFB83-D40		WFB83-F40		40	20.00
WFB83-S50		WFB83-D50		WFB83-F50		50	25.00
WFB83-S60		WFB83-D60		WFB83-F60		60	30.00
WFB83-S70		WFB83-D70		WFB83-F70		70	35.00
WFB83-S80		WFB83-D80		WFB83-F80		80	40.00
WFB83-S90		WFB83-D90		WFB83-F90		90	45.00
WFB83-S100		WFB83-D100		WFB83-F100		100	50.00
WFB83-S120		WFB83-D120		WFB83-F120		120	60.00

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

May be two piece construction. Hub diameter never exceeds O.D.
Other number of teeth AGMA 12 ir 14 / DIN 5 or 3 available on request.

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.5	SINGLE, DOUBLE OR FOUR THREAD PIN HUB	8	5	464 BRASS ALLOY	DIN 7/AGMA 10	RIGHT HAND



SINGLE THREAD WORM		DOUBLE THREAD WORM		FOUR THREAD WORM		NO. OF TEETH	PITCH DIA.
Circular Pitch	1.571	Circular Pitch	3.142	Circular Pitch	6.283		
Helix Angle	3° 10'	Helix Angle	6° 20'	Helix Angle	12° 31'		
Pressure Angle	14-1/2°	Pressure Angle	20°	Pressure Angle	25°		
STOCK NO.		STOCK NO.		STOCK NO.			
WFB95-S30		WFB95-D30		WFB95-F30		30	15.00
WFB95-S40		WFB95-D40		WFB95-F40		40	20.00
WFB95-S50		WFB95-D50		WFB95-F50		50	25.00
WFB95-S60		WFB95-D60		WFB95-F60		60	30.00
WFB95-S70		WFB95-D70		WFB95-F70		70	35.00
WFB95-S80		WFB95-D80		WFB95-F80		80	40.00
WFB95-S90		WFB95-D90		WFB95-F90		90	45.00
WFB95-S100		WFB95-D100		WFB95-F100		100	50.00
WFB95-S120		WFB95-D120		WFB95-F120		120	60.00

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

May be two piece construction. Hub diameter never exceeds O.D.
Other number of teeth AGMA 12 ir 14 / DIN 5 or 3 available on request.

PRECISION WORMS

MODULE	STYLE	BORE	MATERIAL	QUALITY	TYPE
0.4	SINGLE, DOUBLE OR FOUR THREAD	3	STAINLESS STEEL DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	THREAD	LEAD	LEAD ANGLE	ØH	PRESSURE ANGLE
WGS-3S	SINGLE	1.257	1° 44'	8	14-1/2°
WGS-3D	DOUBLE	2.513	3° 28'		
WGS-3F	FOUR	5.027	6° 54'		

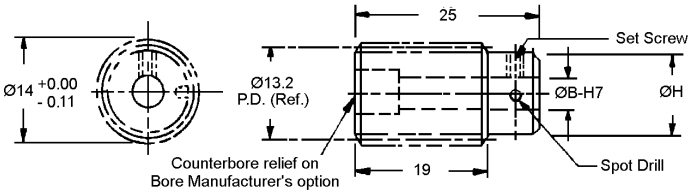
B

MODULE	STYLE	BORE	MATERIAL	QUALITY	TYPE
0.4	SINGLE, DOUBLE OR FOUR THREAD	5	STAINLESS STEEL DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	THREAD	LEAD	LEAD ANGLE	ØH	PRESSURE ANGLE
WGS-5S	SINGLE	1.257	1° 44'	10	14-1/2°
WGS-5D	DOUBLE	2.513	3° 28'		
WGS-5F	FOUR	5.027	6° 54'		

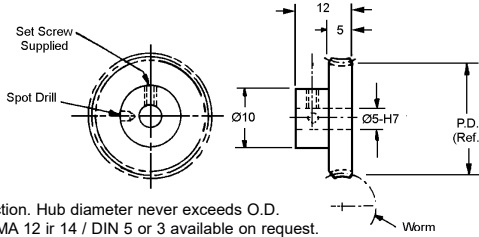
MODULE	STYLE	BORE	MATERIAL	QUALITY	TYPE
0.4	SINGLE, DOUBLE OR FOUR THREAD	7	STAINLESS STEEL DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	THREAD	LEAD	LEAD ANGLE	ØH	PRESSURE ANGLE
WGS-7S	SINGLE	1.257	1° 44'	11	14-1/2°
WGS-7D	DOUBLE	2.513	3° 28'		
WGS-7F	FOUR	5.027	6° 54'		



PRECISION WORM GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.4	SINGLE, DOUBLE OR FOUR THREAD PIN HUB	5	5	464 BRASS ALLOY	DIN 7/AGMA 10	RIGHT HAND

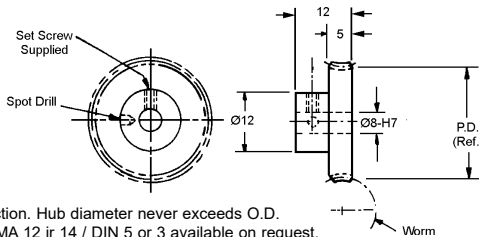


May be two piece construction. Hub diameter never exceeds O.D.
Other number of teeth AGMA 12 or 14 / DIN 5 or 3 available on request.

SINGLE THREAD WORM		DOUBLE THREAD WORM		FOUR THREAD WORM		NO. OF TEETH	PITCH DIA.
Circular Pitch	1.257	Circular Pitch	2.513	Circular Pitch	5.027		
Helix Angle	1° 44'	Helix Angle	3° 28'	Helix Angle	6° 54'		
Pressure Angle	14-1/2°	Pressure Angle	14-1/2°	Pressure Angle	14-1/2°		
STOCK NO.		STOCK NO.		STOCK NO.			
WGB83-S40		WGB83-D40		WGB83-F40		40	16.00
WGB83-S50		WGB83-D50		WGB83-F50		50	20.00
WGB83-S60		WGB83-D60		WGB83-F60		60	24.00
WGB83-S70		WGB83-D70		WGB83-F70		70	28.00
WGB83-S80		WGB83-D80		WGB83-F80		80	32.00
WGB83-S90		WGB83-D90		WGB83-F90		90	36.00
WGB83-S100		WGB83-D100		WGB83-F100		100	40.00
WGB83-S110		WGB83-D110		WGB83-F110		110	44.00
WGB83-S120		WGB83-D120		WGB83-F120		120	48.00

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.4	SINGLE, DOUBLE OR FOUR THREAD PIN HUB	8	5	464 BRASS ALLOY	DIN 7/AGMA 10	RIGHT HAND



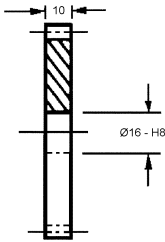
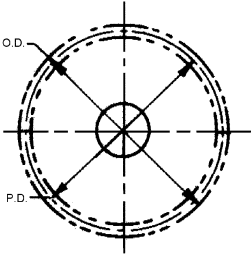
May be two piece construction. Hub diameter never exceeds O.D.
Other number of teeth AGMA 12 or 14 / DIN 5 or 3 available on request.

SINGLE THREAD WORM		DOUBLE THREAD WORM		FOUR THREAD WORM		NO. OF TEETH	PITCH DIA.
Circular Pitch	1.257	Circular Pitch	2.513	Circular Pitch	5.027		
Helix Angle	1° 44'	Helix Angle	3° 28'	Helix Angle	6° 54'		
Pressure Angle	14-1/2°	Pressure Angle	14-1/2°	Pressure Angle	14-1/2°		
STOCK NO.		STOCK NO.		STOCK NO.			
WGB95-S40		WGB95-D40		WGB95-F40		40	16.00
WGB95-S50		WGB95-D50		WGB95-F50		50	20.00
WGB95-S60		WGB95-D60		WGB95-F60		60	24.00
WGB95-S70		WGB95-D70		WGB95-F70		70	28.00
WGB95-S80		WGB95-D80		WGB95-F80		80	32.00
WGB95-S90		WGB95-D90		WGB95-F90		90	36.00
WGB95-S100		WGB95-D100		WGB95-F100		100	40.00
WGB95-S110		WGB95-D110		WGB95-F110		110	44.00
WGB95-S120		WGB95-D120		WGB95-F120		120	48.00
WGB95-S180		WGB95-D180		WGB95-F180		180	72.00

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

SPUR GEARS

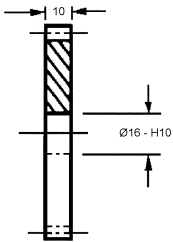
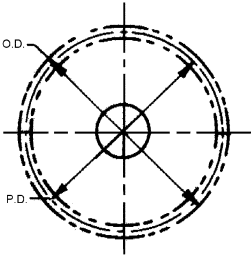
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.5	HUBLESS	16	10	STAINLESS STEEL DIN 1.4305	DIN 8/AGMA 9	20°



STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FAS120-18	18	27.00	30.00
FAS120-20	20	30.00	33.00
FAS120-24	24	36.00	39.00
FAS120-28	28	42.00	45.00
FAS120-30	30	45.00	48.00
FAS120-32	32	48.00	51.00
FAS120-36	36	54.00	57.00
FAS120-40	40	60.00	63.00
FAS120-48	48	72.00	75.00
FAS120-56	56	84.00	87.00
FAS120-60	60	90.00	93.00
FAS120-64	64	96.00	99.00

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.5	HUBLESS	16	10	POLYURETHANE WITH LUBRICANT	DIN 9/AGMA 8	20°

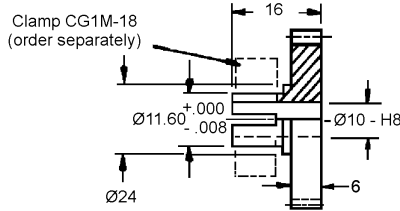
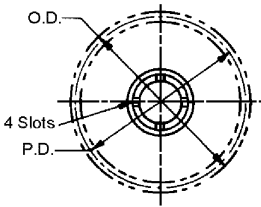


STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FAU120-18	18	27.00	30.00
FAU120-20	20	30.00	33.00
FAU120-24	24	36.00	39.00
FAU120-28	28	42.00	45.00
FAU120-30	30	45.00	48.00
FAU120-32	32	48.00	51.00
FAU120-36	36	54.00	57.00
FAU120-40	40	60.00	63.00
FAU120-48	48	72.00	75.00
FAU120-56	56	84.00	87.00
FAU120-60	60	90.00	93.00
FAU120-64	64	96.00	99.00

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

SPUR GEARS

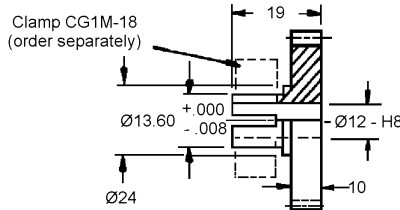
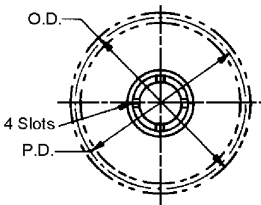
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.5	CLAMP HUB	10	6	STAINLESS STEEL DIN 1.4305	DIN 8/AGMA 9	20°



STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
CAS56-16	16	24.00	27.00
CAS56-18	18	27.00	30.00
CAS56-20	20	30.00	33.00
CAS56-24	24	36.00	39.00
CAS56-32	32	48.00	51.00
CAS56-40	40	60.00	63.00
CAS56-48	48	72.00	75.00

Available on request: Other numbers of teeth; 14 - 1/2° pressure angle.

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.5	CLAMP HUB	12	10	STAINLESS STEEL DIN 1.4305	DIN 8/AGMA 9	20°



STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
CAS57-16	16	24.00	27.00
CAS57-18	18	27.00	30.00
CAS57-20	20	30.00	33.00
CAS57-24	24	36.00	39.00
CAS57-32	32	48.00	51.00
CAS57-40	40	60.00	63.00
CAS57-48	48	72.00	75.00

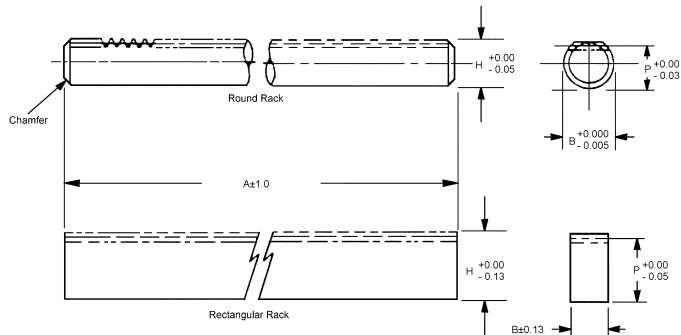
Available on request: Other numbers of teeth; 14 - 1/2° pressure angle.

For Couplings See Section MG.

For Shafts, Bearings and Collars See Section MI.

GEAR RACKS

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
1.5	ROUND & RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°

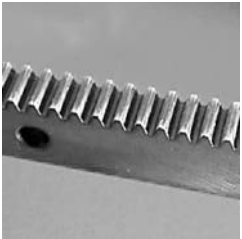
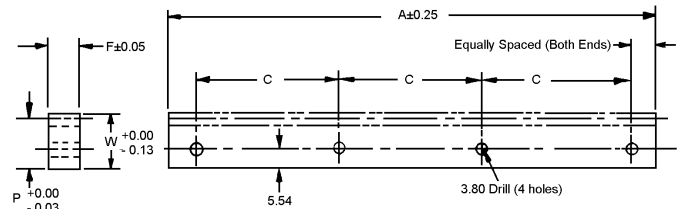


B

STOCK NO.	RACK STYLE	MOD.	P (Ref.)	B	A	H
R2M-1	ROUND	1.5	15.77	19.974	600	17.27
R3M-1	RECTANGULAR	1.5	17.04	9.02	600	18.54

Available on request: Special, modified and custom racks.

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
1.5	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



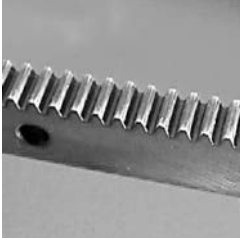
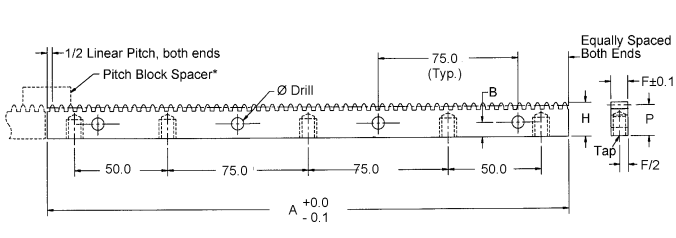
STOCK NO.	A	P (Ref.)	W	F	C
R4M-05	248.8	11.4	12.2	5.8	80.0

Available on request: Special, modified and custom racks.

Quality Class AGMA12/DIN 5 available on request.

GEAR RACKS

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
1.5	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



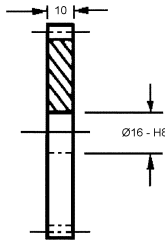
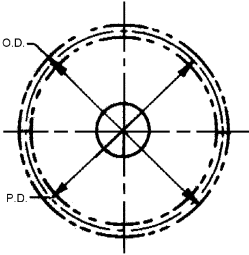
Spacer block is designed for butting to achieve continuous lengths.

RACKS		SPACER BLOCK								
STOCK NO.	STOCK NO.	LINEAR PITCH	A	P (REF.)	H +0.00 / -0.13	F	B	Ø DRILL	TAP	
R1M-1	R1M-SB	4.71	282.7	16.91	18.42	9.0	7.9	7.0	M5.0 X 0.8	

Quality Class AGMA 12/Din 5 available on request. Custom racks available on request.

SPUR GEARS

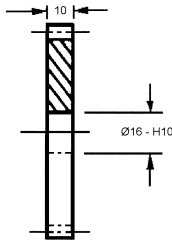
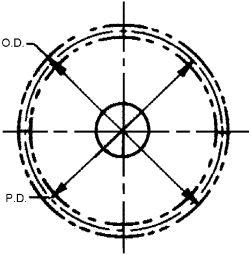
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.25	HUBLESS	16	10	STAINLESS STEEL DIN 1.4305	DIN 8/AGMA 9	20°



STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FBS120-24	24	30.00	32.50
FBS120-25	25	31.25	33.75
FBS120-30	30	37.50	40.00
FBS120-35	35	43.75	46.25
FBS120-40	40	50.00	52.50
FBS120-45	45	56.25	58.75
FBS120-50	50	62.50	65.00
FBS120-60	60	75.00	77.50
FBS120-70	70	87.50	90.00
FBS120-80	80	100.00	102.50

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.25	HUBLESS	16	10	POLYURETHANE WITH LUBRICANT	DIN 9/AGMA 8	20°



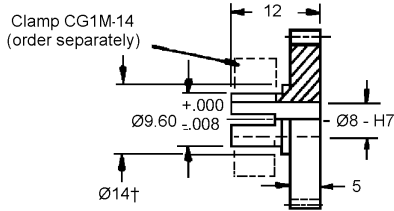
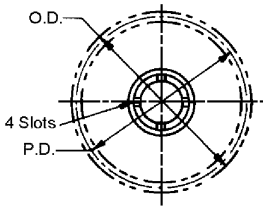
STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FBU120-24	24	30.00	32.50
FBU120-25	25	31.25	33.75
FBU120-30	30	37.50	40.00
FBU120-35	35	43.75	46.25
FBU120-40	40	50.00	52.50
FBU120-45	45	56.25	58.75
FBU120-50	50	62.50	65.00
FBU120-60	60	75.00	77.50
FBU120-70	70	87.50	90.00
FBU120-80	80	100.00	102.50

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.25	CLAMP HUB	8	5	STAINLESS STEEL DIN 1.4305	DIN 8/AGMA 9	20°



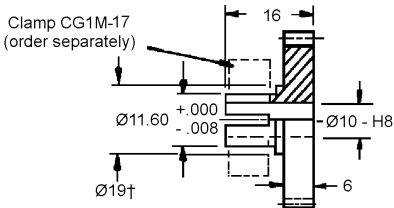
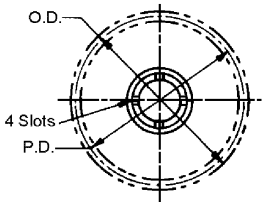
STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
CBS65-16	16†	20.00	22.50
CBS65-20	20	25.00	27.50
CBS65-24	24	30.00	32.50
CBS65-32	32	40.00	42.50
CBS65-40	40	50.00	52.50
CBS65-48	48	60.00	62.50
CBS65-50	50	62.00	65.00
CBS65-55	55	68.00	71.25
CBS65-60	60	75.00	77.50

Available on request: Other numbers of teeth;

14 - 1/2° pressure angle; Quality Class DIN 5 / AGMA 12

† Teeth may runout on flange diameter.

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.25	CLAMP HUB	10	6	STAINLESS STEEL DIN 1.4305	DIN 8/AGMA 9	20°



STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
CBS56-16	16†	20.00	22.50
CBS56-20	20	25.00	27.50
CBS56-24	24	30.00	32.50
CBS56-32	32	40.00	42.50
CBS56-40	40	50.00	52.50
CBS56-48	48	60.00	62.50
CBS56-50	50	62.00	65.00
CBS56-55	55	68.00	71.25
CBS56-60	60	75.00	77.50

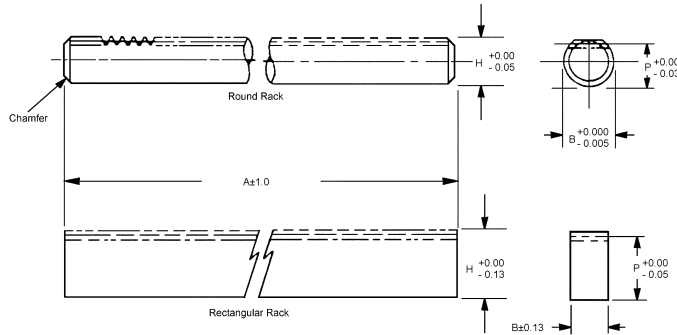
Available on request: Other numbers of teeth;

14 - 1/2° pressure angle; Quality Class DIN 5 / AGMA 12

† Teeth may runout on flange diameter.

GEAR RACKS

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
1.25	ROUND & RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°

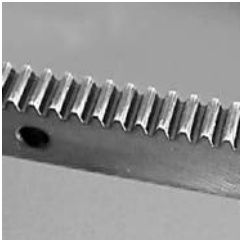
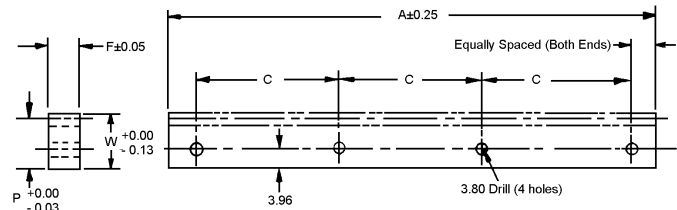


B

STOCK NO.	RACK STYLE	MOD.	P (Ref.)	B	A	H
R2M-2	ROUND	1.25	12.21	19.974	600	13.46
R3M-2	RECTANGULAR	1.25	17.24	9.02	600	18.54

Available on request: Special, modified and custom racks.

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
1.25	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



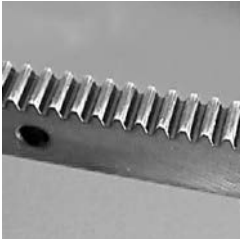
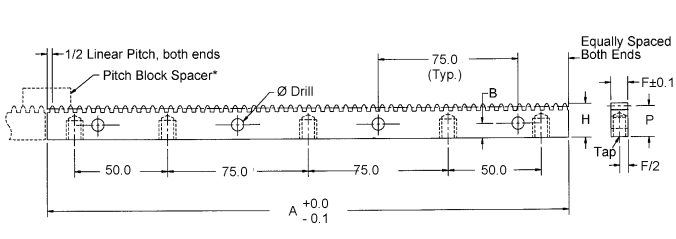
STOCK NO.	A	P (Ref.)	W	F	C
R4M-9	247.4	10.9	12.2	5.8	80.0

Available on request: Special, modified and custom racks.

Quality Class AGMA12/DIN 5 available on request.

GEAR RACKS

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
1.25	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



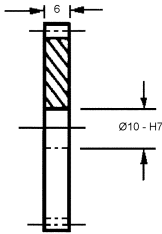
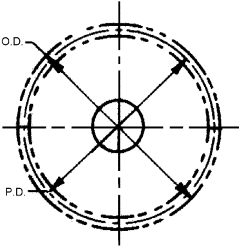
Spacer block is designed for butting to achieve continuous lengths.

RACKS	SPACER BLOCK								
STOCK NO.	STOCK NO.	LINEAR PITCH	A	P (REF.)	H +0.00 / -0.13	F	B	Ø DRILL	TAP
R1M-2	R1M-2-SB	3.93	282.8	17.17	18.42	9.0	7.9	7.0	M5.0 X 0.8

Quality Class AGMA 12/Din 5 available on request. Custom racks available on request.

SPUR GEARS

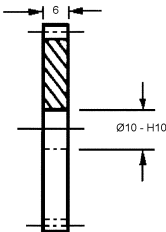
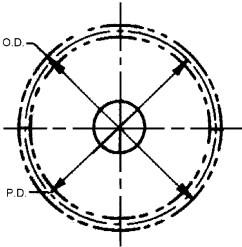
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.0	HUBLESS	10	6	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FCS106-24	FCA106-24	24	24.00	26.00
FCS106-30	FCA106-30	30	30.00	32.00
FCS106-32	FCA106-32	32	32.00	34.00
FCS106-36	FCA106-36	36	36.00	38.00
FCS106-48	FCA106-48	48	48.00	50.00
FCS106-60	FCA106-60	60	60.00	62.00
FCS106-64	FCA106-64	64	64.00	66.00
FCS106-72	FCA106-72	72	72.00	74.00
FCS106-96	FCA106-96	96	96.00	98.00

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.0	HUBLESS	10	6	POLYURETHANE WITH LUBRICANT	DIN 9/AGMA 8	20°



STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FCU106-24	24	24.00	26.00
FCU106-30	30	30.00	32.00
FCU106-32	32	32.00	34.00
FCU106-36	36	36.00	38.00
FCU106-48	48	48.00	50.00
FCU106-60	60	60.00	62.00
FCU106-64	64	64.00	66.00
FCU106-72	72	72.00	74.00
FCU106-96	96	96.00	98.00

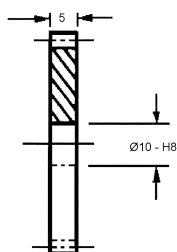
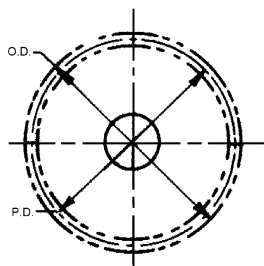
Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.



For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.0	HUBLESS	10	5	DELTRIN	DIN 8/AGMA 9	20°



STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FCD105-15	15	15.00	17.00
FCD105-16	16	16.00	18.00
FCD105-17	17	17.00	19.00
FCD105-18	18	18.00	20.00
FCD105-19	19	19.00	21.00
FCD105-20	20	20.00	22.00
FCD105-21	21	21.00	23.00
FCD105-22	22	22.00	24.00
FCD105-23	23	23.00	25.00
FCD105-24	24	24.00	26.00
FCD105-25	25	25.00	27.00
FCD105-28	28	28.00	30.00
FCD105-30	30	30.00	32.00
FCD105-32	32	32.00	34.00
FCD105-33	33	33.00	35.00
FCD105-36	36	36.00	38.00
FCD105-40	40	40.00	42.00
FCD105-42	42	42.00	44.00
FCD105-45	45	45.00	47.00
FCD105-46	46	46.00	48.00
FCD105-48	48	48.00	50.00
FCD105-50	50	50.00	52.00
FCD105-52	52	52.00	54.00
FCD105-55	55	55.00	57.00
FCD105-56	56	56.00	58.00
FCD105-57	57	57.00	59.00
FCD105-60	60	60.00	62.00
FCD105-64	64	64.00	66.00
FCD105-66	66	66.00	68.00
FCD105-69	69	69.00	71.00
FCD105-72	72	72.00	74.00
FCD105-78	78	78.00	80.00
FCD105-84	84	84.00	86.00
FCD105-90	90	90.00	92.00
FCD105-93	93	93.00	95.00

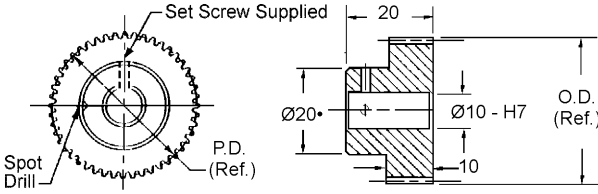
Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

For Couplings See Section MG.

For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

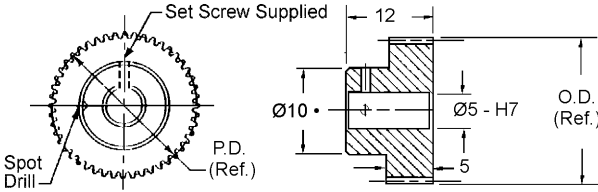
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.0	PIN HUB	10	5	STAINLESS STEEL DIN 1.4305	DIN 7/AGMA 10	20°



STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PCS86-18	18•	18.00	20.00
PCS86-20	20•	20.00	22.00
PCS86-24	24•	24.00	26.00
PCS86-28	28	28.00	30.00
PCS86-30	30	30.00	32.00
PCS86-36	36	36.00	38.00
PCS86-40	40	40.00	42.00
PCS86-48	48	48.00	50.00
PCS86-56	56	56.00	58.00
PCS86-60	60	60.00	62.00
PCS86-72	72	72.00	74.00
PCS86-80	80	80.00	82.00
PCS86-96	96	96.00	98.00

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle;
Quality Class AGMA 12 and 14 / DIN 5 and 3
• For 18 - 22 teeth hub diameter equals 15.5

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.0	PIN HUB	5	5	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°

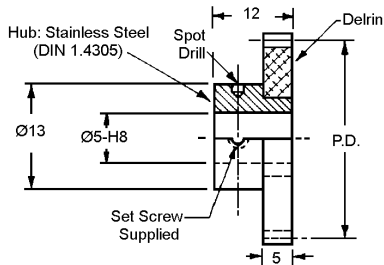
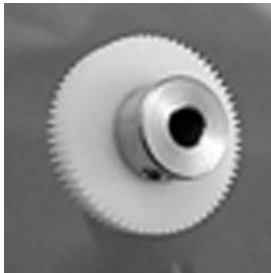


STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PCS83-15	PCA83-15	15	15.00	17.00
PCS83-16	PCA83-16	16	16.00	18.00
PCS83-18	PCA83-18	18	18.00	20.00
PCS83-20	PCA83-20	20	20.00	22.00
PCS83-22	PCA83-22	22	22.00	24.00
PCS83-24	PCA83-24	24	24.00	26.00
PCS83-30	PCA83-30	30	30.00	32.00
PCS83-36	PCA83-36	36	36.00	38.00
PCS83-42	PCA83-42	42	42.00	44.00
PCS83-48	PCA83-48	48	48.00	50.00
PCS83-54	PCA83-54	54	54.00	56.00
PCS83-60	PCA83-60	60	60.00	62.00
PCS83-72	PCA83-72	72	72.00	74.00
PCS83-84	PCA83-84	84	84.00	86.00
PCS83-96	PCA83-96	96	96.00	98.00

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle;
Quality Class AGMA 12 and 14 / DIN 5 and 3
• For 11 - 12 teeth hub diameter is 8.1

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.0	PIN HUB	5	5	DELRIN	DIN 8/AGMA 9	20°



STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PCD121X-15	15	15.00	17.00
PCD121X-16	16	16.00	18.00
PCD121X-17	17	17.00	19.00
PCD121X-18	18	18.00	20.00
PCD121X-19	19	19.00	21.00
PCD121X-20	20	20.00	22.00
PCD121X-21	21	21.00	23.00
PCD121X-22	22	22.00	24.00
PCD121X-23	23	23.00	25.00
PCD121X-24	24	24.00	26.00
PCD121X-25	25	25.00	27.00
PCD121X-28	28	28.00	30.00
PCD121X-30	30	30.00	32.00
PCD121X-32	32	32.00	34.00
PCD121X-33	33	33.00	35.00
PCD121X-36	36	36.00	38.00
PCD121X-40	40	40.00	42.00
PCD121X-42	42	42.00	44.00
PCD121X-45	45	45.00	47.00
PCD121X-46	46	46.00	48.00
PCD121X-48	48	48.00	50.00
PCD121X-50	50	50.00	52.00
PCD121X-52	52	52.00	54.00
PCD121X-55	55	55.00	57.00
PCD121X-56	56	56.00	58.00
PCD121X-57	57	57.00	59.00
PCD121X-60	60	60.00	62.00
PCD121X-64	64	64.00	66.00
PCD121X-66	66	66.00	68.00
PCD121X-69	69	69.00	71.00
PCD121X-72	72	72.00	74.00
PCD121X-78	78	78.00	80.00
PCD121X-84	84	84.00	86.00
PCD121X-90	90	90.00	92.00
PCD121X-93	93	93.00	95.00

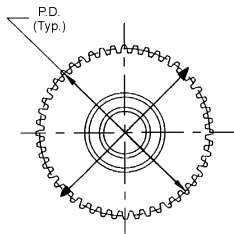
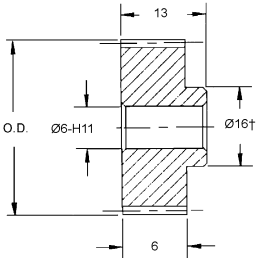
Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

For Couplings See Section MG.

For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.0	PIN HUB	6	6	DELTRIN	DIN 12/AGMA 5	20°

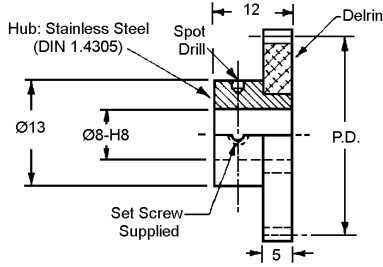
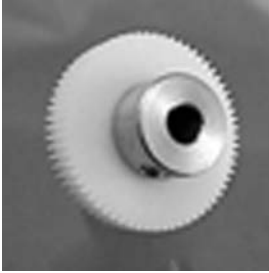


STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PCD106M-15	15†	15.00	17.00
PCD106M-16	16†	16.00	18.00
PCD106M-18	18	18.00	20.00
PCD106M-20	20	20.00	22.00
PCD106M-21	21	21.00	23.00
PCD106M-24	24	24.00	26.00
PCD106M-30	30	30.00	32.00
PCD106M-36	36	36.00	38.00
PCD106M-42	42	42.00	44.00
PCD106M-48	48	48.00	50.00
PCD106M-54	54	54.00	56.00
PCD106M-60	60	60.00	62.00

Available on request:
Other bore sizes, numbers of teeth
† Teeth runout on hub.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.0	PIN HUB	8	5	DELTRIN	DIN 8/AGMA 9	20°



STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PCD138X-15	15	15.00	17.00
PCD138X-16	16	16.00	18.00
PCD138X-17	17	17.00	19.00
PCD138X-18	18	18.00	20.00
PCD138X-19	19	19.00	21.00
PCD138X-20	20	20.00	22.00
PCD138X-21	21	21.00	23.00
PCD138X-22	22	22.00	24.00
PCD138X-23	23	23.00	25.00
PCD138X-24	24	24.00	26.00
PCD138X-25	25	25.00	27.00
PCD138X-28	28	28.00	30.00
PCD138X-30	30	30.00	32.00
PCD138X-32	32	32.00	34.00
PCD138X-33	33	33.00	35.00
PCD138X-36	36	36.00	38.00
PCD138X-40	40	40.00	42.00
PCD138X-42	42	42.00	44.00
PCD138X-45	45	45.00	47.00
PCD138X-46	46	46.00	48.00
PCD138X-48	48	48.00	50.00
PCD138X-50	50	50.00	52.00
PCD138X-52	52	52.00	54.00
PCD138X-55	55	55.00	57.00
PCD138X-56	56	56.00	58.00
PCD138X-57	57	57.00	59.00
PCD138X-60	60	60.00	62.00
PCD138X-64	64	64.00	66.00
PCD138X-66	66	66.00	68.00
PCD138X-69	69	69.00	71.00
PCD138X-72	72	72.00	74.00
PCD138X-78	78	78.00	80.00
PCD138X-84	84	84.00	86.00
PCD138X-90	90	90.00	92.00
PCD138X-93	93	93.00	95.00

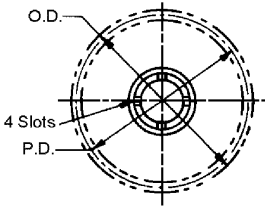
Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

For Couplings See Section MG.

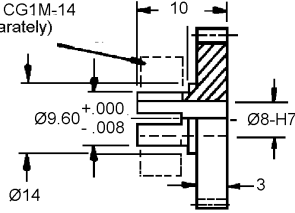
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.0	CLAMP HUB	8	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 8/AGMA 9	20°



Use Clamp CG1M-14
(Order Separately)



STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
CCS64-12	CCA64-12	12	12.00	14.00
CCS64-13	CCA64-13	13	13.00	15.00
CCS64-14	CCA64-14	14	14.00	16.00
CCS64-15	CCA64-15	15	15.00	17.00
CCS64-16	CCA64-16	16	16.00	18.00
CCS64-17	CCA64-17	17	17.00	19.00
CCS64-18	CCA64-18	18	18.00	20.00
CCS64-19	CCA64-19	19	19.00	21.00
CCS64-20	CCA64-20	20	20.00	22.00
CCS64-21	CCA64-21	21	21.00	23.00
CCS64-22	CCA64-22	22	22.00	24.00
CCS64-23	CCA64-23	23	23.00	25.00
CCS64-24	CCA64-24	24	24.00	26.00
CCS64-27	CCA64-27	27	27.00	29.00
CCS64-30	CCA64-30	30	30.00	32.00
CCS64-33	CCA64-33	33	33.00	35.00
CCS64-36	CCA64-36	36	36.00	38.00
CCS64-39	CCA64-39	39	39.00	41.00
CCS64-42	CCA64-42	42	42.00	44.00
CCS64-45	CCA64-45	45	45.00	47.00
CCS64-48	CCA64-48	48	48.00	50.00
CCS64-51	CCA64-51	51	51.00	53.00
CCS64-54	CCA64-54	54	54.00	56.00
CCS64-57	CCA64-57	57	57.00	59.00
CCS64-60	CCA64-60	60	60.00	62.00
CCS64-63	CCA64-63	63	63.00	65.00
CCS64-66	CCA64-66	66	66.00	68.00
CCS64-69	CCA64-69	69	69.00	71.00
CCS64-72	CCA64-72	72	72.00	74.00
CCS64-75	CCA64-75	75	75.00	77.00
CCS64-78	CCA64-78	78	78.00	80.00
CCS64-81	CCA64-81	81	81.00	83.00
CCS64-84	CCA64-84	84	84.00	86.00
CCS64-87	CCA64-87	87	87.00	89.00
CCS64-90	CCA64-90	90	90.00	92.00
CCS64-93	CCA64-93	93	93.00	95.00
CCS64-96	CCA64-96	96	96.00	98.00
CCS64-99	CCA64-99	99	99.00	101.00

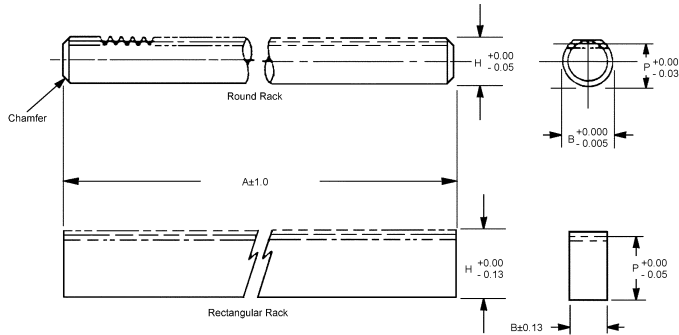
Available on request:
Other bore sizes;
numbers of teeth;
14-12° Pressure Angle;
Quality Class DIN 5/AGMA12

*For 17 teeth and below, teeth cut into flange

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

GEAR RACKS

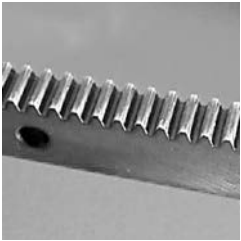
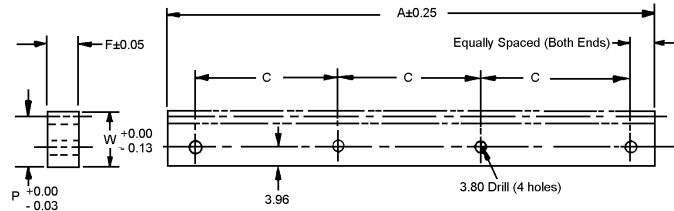
MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
1.0	ROUND & RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



STOCK NO.	RACK STYLE	MOD.	P (Ref.)	B	A	H
R2M-3	ROUND	1.0	11.19	12.974	450	12.19
R3M-3	RECTANGULAR	1.0	11.19	5.84	450	12.19

Available on request: Special, modified and custom racks.

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
1.0	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



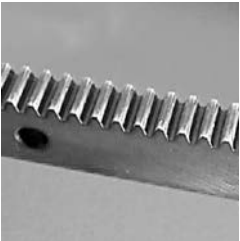
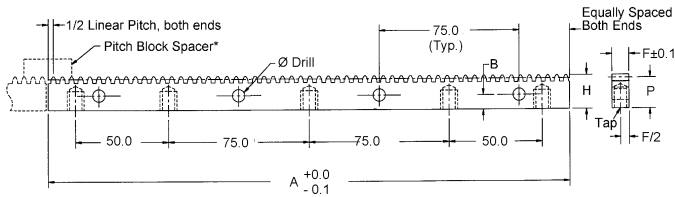
STOCK NO.	A	P (Ref.)	W	F	C
R4M-11	248.2	11.2	12.2	5.8	80.0

Quality Class AGMA12/DIN 5
available on request.

Available on request: Special, modified and custom racks.

GEAR RACKS

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
1.0	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



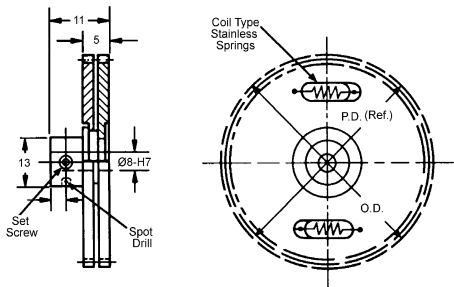
Spacer block is designed for butting to achieve continuous lengths.

RACKS		SPACER BLOCK							
STOCK NO.	STOCK NO.	LINEAR PITCH	A	P (REF.)	H $\begin{smallmatrix} +0.00 \\ -0.13 \end{smallmatrix}$	F	B	Ø DRILL	TAP
R1M-3	R1M-3-SB	3.14	279.6	11.07	12.07	5.8	5.5	3.8	M4.0 X 0.7

Quality Class AGMA 12/Din 5 available on request. Custom racks available on request.

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.0	PIN HUB	8	5	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



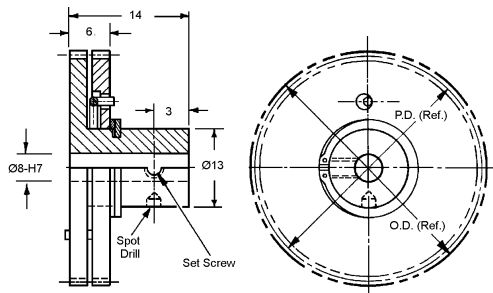
STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APCMM-30-X	APCQM-30-X	30	30.00	32.0
APCMM-35-X	APCQM-35-X	35	35.00	37.0
APCMM-36-X	APCQM-36-X	36	36.00	38.0
APCMM-40-X	APCQM-40-X	40	40.00	42.0
APCMM-42-X	APCQM-42-X	42	42.00	44.0
APCMM-45-X	APCQM-45-X	45	45.00	47.0
APCMM-48-X	APCQM-48-X	48	48.00	50.0
APCMM-50-X	APCQM-50-X	50	50.00	52.0
APCMM-54-X	APCQM-54-X	54	54.00	56.0
APCMM-55-X	APCQM-55-X	55	55.00	57.0
APCMM-60-X	APCQM-60-X	60	60.00	62.0
APCMM-65-X	APCQM-65-X	65	65.00	67.0
APCMM-66-X	APCQM-66-X	66	66.00	68.0

Available on request:
Other numbers of teeth;
Quality Class AGMA12 & 14 / DIN 5 & 3;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.0	PIN HUB	8	6	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°

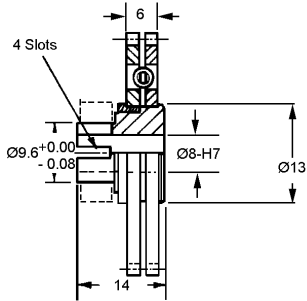


STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APCBMS-18-X	APCDMS-18-X	18	18.00	20.00
APCBMS-21-X	APCDMS-21-X	21	21.00	23.00
APCBMS-24-X	APCDMS-24-X	24	24.00	26.00

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.0	CLAMP HUB	8	6	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



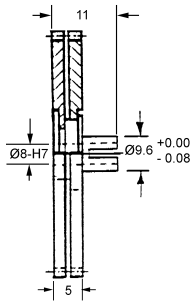
STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACCBMS-18-X	ACCDMS-18-X	18	18.00	20.00
ACCBMS-21-X	ACCDMS-21-X	21	21.00	23.00
ACCBMS-24-X	ACCDMS-24-X	24	24.00	26.00

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
1.0	CLAMP HUB	8	6	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



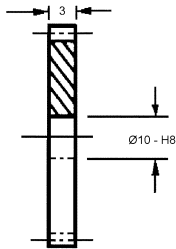
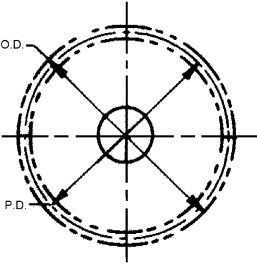
STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACMM-30-X	ACCQM-30-X	30	30.00	32.0
ACMM-35-X	ACCQM-35-X	35	35.00	37.0
ACMM-36-X	ACCQM-36-X	36	36.00	38.0
ACMM-40-X	ACCQM-40-X	40	40.00	42.0
ACMM-42-X	ACCQM-42-X	42	42.00	44.0
ACMM-45-X	ACCQM-45-X	45	45.00	47.0
ACMM-48-X	ACCQM-48-X	48	48.00	50.0
ACMM-50-X	ACCQM-50-X	50	50.00	52.0
ACMM-54-X	ACCQM-54-X	54	54.00	56.0
ACMM-55-X	ACCQM-55-X	55	55.00	57.0
ACMM-60-X	ACCQM-60-X	60	60.00	62.0
ACMM-65-X	ACCQM-65-X	65	65.00	67.0
ACMM-66-X	ACCQM-66-X	66	66.00	68.0

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	HUBLESS	10	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



B

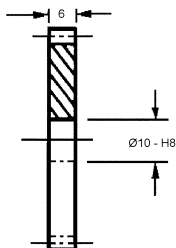
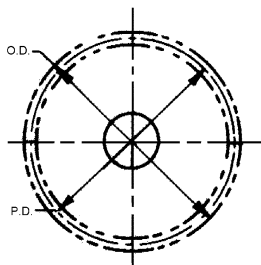
STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FDS103-20	FDA103-20	20	16.00	17.60
FDS103-24	FDA103-24	24	19.20	20.80
FDS103-26	FDA103-26	26	20.80	22.40
FDS103-28	FDA103-28	28	22.40	24.00
FDS103-30	FDA103-30	30	24.00	25.60
FDS103-32	FDA103-32	32	25.60	27.20
FDS103-36	FDA103-36	36	28.80	30.40
FDS103-40	FDA103-40	40	32.00	33.60
FDS103-42	FDA103-42	42	33.60	35.20
FDS103-44	FDA103-44	44	35.20	36.80
FDS103-48	FDA103-48	48	38.40	40.00
FDS103-60	FDA103-60	60	48.00	49.60
FDS103-64	FDA103-64	64	51.20	52.80
FDS103-72	FDA103-72	72	57.60	59.20
FDS103-75	FDA103-75	75	60.00	61.60
FDS103-76	FDA103-76	76	60.80	62.40
FDS103-80	FDA103-80	80	64.00	65.60
FDS103-81	FDA103-81	81	64.80	66.40
FDS103-86	FDA103-86	86	68.80	70.40
FDS103-88	FDA103-88	88	70.40	72.00
FDS103-90	FDA103-90	90	72.00	73.60
FDS103-92	FDA103-92	92	73.60	75.20
FDS103-95	FDA103-95	95	76.00	77.60
FDS103-96	FDA103-96	96	76.80	78.40
FDS103-100	FDA103-100	100	80.00	81.60
FDS103-105	FDA103-105	105	84.00	85.60
FDS103-108	FDA103-108	108	86.40	88.00
FDS103-110	FDA103-110	110	88.00	89.60
FDS103-112	FDA103-112	112	89.60	91.20
FDS103-115	FDA103-115	115	92.00	93.60
FDS103-116	FDA103-116	116	92.80	94.40
FDS103-120	FDA103-120	120	96.00	97.60
FDS103-124	FDA103-124	124	99.20	100.80
FDS103-126	FDA103-126	126	100.80	102.40
FDS103-128	FDA103-128	128	102.40	104.00
FDS103-132	FDA103-132	132	105.60	107.20

Available on request:
Other numbers of teeth;
Quality Class AGMA 12 & 14 / DIN 5 & 3;
14-1/2° Pressure Angle

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	HUBLESS	10	6	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FDS106-32	FDA106-32	32	25.60	27.20
FDS106-36	FDA106-36	36	28.80	30.40
FDS106-40	FDA106-40	40	32.00	33.60
FDS106-48	FDA106-48	48	38.40	40.00
FDS106-60	FDA106-60	60	48.00	49.60
FDS106-64	FDA106-64	64	51.20	52.80
FDS106-72	FDA106-72	72	57.60	59.20
FDS106-75	FDA106-75	75	60.00	61.60
FDS106-80	FDA106-80	80	64.00	65.60
FDS106-96	FDA106-96	96	76.80	78.40
FDS106-120	FDA106-120	120	96.00	97.60
FDS106-128	FDA106-128	128	102.40	104.00

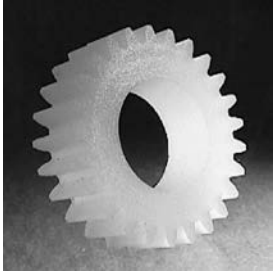
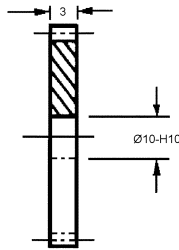
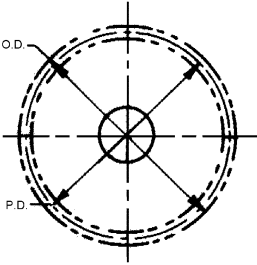
Available on request:
Other numbers of teeth;
14-1/2° Pressure Angle

For Couplings See Section MG.

For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

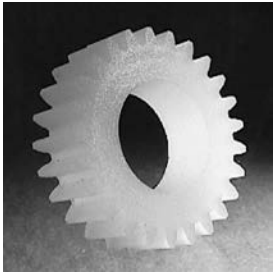
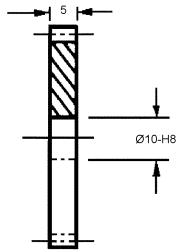
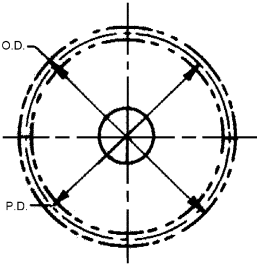
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	HUBLESS	10	3	POLYURETHANE WITH LUBRICANT	DIN 8/AGMA 9	20°



STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FDU103-32	32	25.60	27.20
FDU103-36	36	28.80	30.40
FDU103-40	40	32.00	33.60
FDU103-48	48	38.40	40.00
FDU103-60	60	48.00	49.60
FDU103-64	64	51.20	52.80
FDU103-72	72	57.60	59.20

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	HUBLESS	10	5	DELIN	DIN 8/AGMA 9	20°

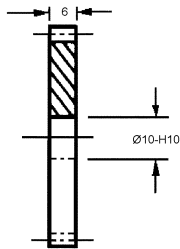
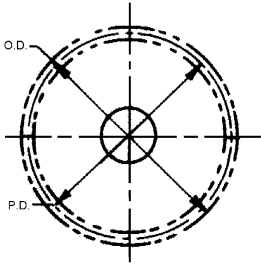


STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FDD105-20	20	16.00	17.60
FDD105-21	21	16.80	18.40
FDD105-22	22	17.60	19.20
FDD105-23	23	18.40	20.00
FDD105-24	24	19.20	20.80
FDD105-25	25	20.00	21.60
FDD105-26	26	20.80	22.40
FDD105-28	28	22.40	24.00
FDD105-30	30	24.00	25.60
FDD105-32	32	25.60	27.20
FDD105-36	36	28.80	30.40
FDD105-40	40	32.00	33.60
FDD105-42	42	33.60	35.20
FDD105-44	44	35.20	36.80
FDD105-46	46	36.80	38.40
FDD105-48	48	38.40	40.00
FDD105-50	50	40.00	41.60

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	HUBLESS	10	6	POLYURETHANE WITH LUBRICANT	DIN 9/AGMA 8	20°



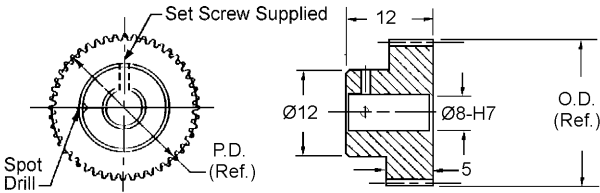
STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FDU106-32	32	25.60	27.20
FDU106-36	36	28.80	30.40
FDU106-40	40	32.00	33.60
FDU106-48	48	38.40	40.00
FDU106-60	60	48.00	49.60
FDU106-64	64	51.20	52.80
FDU106-72	72	57.60	59.20
FDU106-75	75	60.00	61.60
FDU106-80	80	64.00	65.60
FDU106-96	96	76.80	78.40
FDU106-112	112	89.60	91.20
FDU106-120	120	96.00	97.60
FDU106-128	128	102.40	104.00

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	PIN HUB	8	5	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



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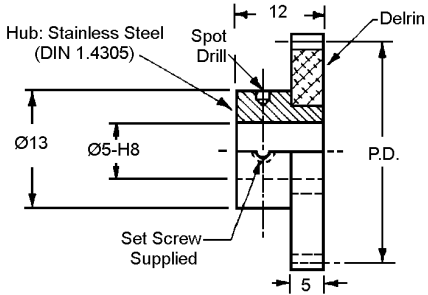
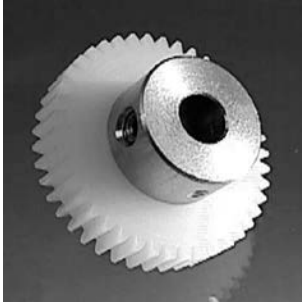
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PDS95-18	PDA95-18	18	14.40	16.00
PDS95-20	PDA95-20	20	16.00	17.60
PDS95-24	PDA95-24	24	19.20	20.80
PDS95-26	PDA95-26	26	20.80	22.40
PDS95-28	PDA95-28	28	22.40	24.00
PDS95-30	PDA95-30	30	24.00	25.60
PDS95-32	PDA95-32	32	25.60	27.20
PDS95-36	PDA95-36	36	28.80	30.40
PDS95-40	PDA95-40	40	32.00	33.60
PDS95-48	PDA95-48	48	38.40	40.00
PDS95-52	PDA95-52	52	41.60	43.20
PDS95-56	PDA95-56	56	44.80	46.40
PDS95-60	PDA95-60	60	48.00	49.60
PDS95-64	PDA95-64	64	51.20	52.80
PDS95-72	PDA95-72	72	57.60	59.20
PDS95-80	PDA95-80	80	64.00	65.60
PDS95-88	PDA95-88	88	70.40	72.00
PDS95-92	PDA95-92	92	73.60	75.20
PDS95-96	PDA95-96	96	76.80	78.40
PDS95-100	PDA95-100	100	80.00	81.60
PDS95-112	PDA95-112	112	89.60	91.20
PDS95-120	PDA95-120	120	96.00	97.60
PDS95-128	PDA95-128	128	102.40	104.00

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle;
Quality Class AGMA 12 and 14 / DIN 5 and 3

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	PIN HUB	5	5	DELTRIN	DIN 8/AGMA 9	20°



STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PDD121X-20	20	16.00	17.60
PDD121X-21	21	16.80	18.40
PDD121X-22	22	17.60	19.20
PDD121X-23	23	18.40	20.00
PDD121X-24	24	19.20	20.80
PDD121X-25	25	20.00	21.60
PDD121X-26	26	20.80	22.40
PDD121X-28	28	22.40	24.00
PDD121X-30	30	24.00	25.60
PDD121X-32	32	25.60	27.20
PDD121X-36	36	28.80	30.40
PDD121X-40	40	32.00	33.60
PDD121X-42	42	33.60	35.20
PDD121X-44	44	35.20	36.80
PDD121X-46	46	36.80	38.40
PDD121X-48	48	38.40	40.00
PDD121X-50	50	40.00	41.60
PDD121X-52	52	41.60	43.20
PDD121X-56	56	44.80	46.40
PDD121X-60	60	48.00	49.60
PDD121X-63	63	50.40	52.00
PDD121X-64	64	51.20	52.80
PDD121X-66	66	52.80	54.40
PDD121X-69	69	55.20	56.80
PDD121X-72	72	57.60	59.20
PDD121X-75	75	60.00	61.60
PDD121X-80	80	64.00	65.60
PDD121X-84	84	67.20	68.80
PDD121X-88	88	70.40	72.00
PDD121X-92	92	73.60	75.20
PDD121X-96	96	76.80	78.40
PDD121X-104	104	83.20	84.80
PDD121X-108	108	86.40	88.00
PDD121X-112	112	89.60	91.20
PDD121X-124	124	99.20	100.80

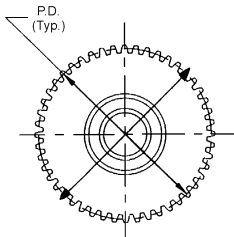
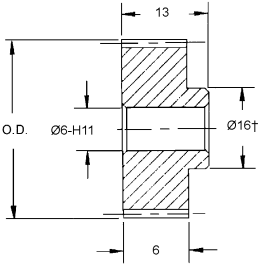
Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

For Couplings See Section MG.

For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	PIN HUB	6	6	DELTRIN	DIN 12/AGMA 5	20°



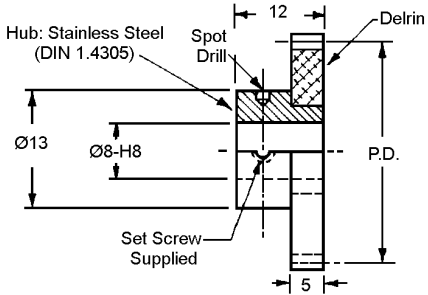
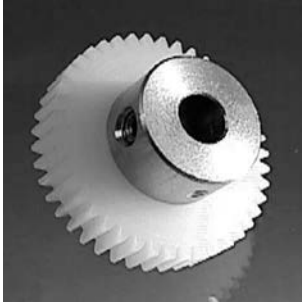
STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PDD106M-20	20†	16.00	17.60
PDD106M-24	24	19.20	20.80
PDD106M-28	28	22.40	24.00
PDD106M-30	30	24.00	25.60
PDD106M-32	32	25.60	27.20
PDD106M-40	40	32.00	33.60
PDD106M-48	48	38.40	40.00
PDD106M-50	50	40.00	41.60
PDD106M-56	56	44.80	46.40
PDD106M-60	60	48.00	49.60
PDD106M-64	64	51.20	52.80
PDD106M-70	70	56.00	57.60
PDD106M-72	72	57.60	59.20
PDD106M-76	76	60.80	62.40
PDD106M-80	80	64.00	65.60
PDD106M-88	88	70.40	72.00
PDD106M-90	90	72.00	73.60

Available on request:
Other bore sizes, numbers of teeth
† Teeth runout on hub.

B

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	PIN HUB	8	5	DELTRIN	DIN 8/AGMA 9	20°



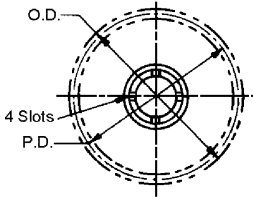
STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PDD138X-20	20	16.00	17.60
PDD138X-21	21	16.80	18.40
PDD138X-22	22	17.60	19.20
PDD138X-23	23	18.40	20.00
PDD138X-24	24	19.20	20.80
PDD138X-25	25	20.00	21.60
PDD138X-26	26	20.80	22.40
PDD138X-28	28	22.40	24.00
PDD138X-30	30	24.00	25.60
PDD138X-32	32	25.60	27.20
PDD138X-36	36	28.80	30.40
PDD138X-40	40	32.00	33.60
PDD138X-42	42	33.60	35.20
PDD138X-44	44	35.20	36.80
PDD138X-46	46	36.80	38.40
PDD138X-48	48	38.40	40.00
PDD138X-50	50	40.00	41.60
PDD138X-52	52	41.60	43.20
PDD138X-56	56	44.80	46.40
PDD138X-60	60	48.00	49.60
PDD138X-63	63	50.40	52.00
PDD138X-64	64	51.20	52.80
PDD138X-66	66	52.80	54.40
PDD138X-69	69	55.20	56.80
PDD138X-72	72	57.60	59.20
PDD138X-75	75	60.00	61.60
PDD138X-80	80	64.00	65.60
PDD138X-84	84	67.20	68.80
PDD138X-88	88	70.40	72.00
PDD138X-92	92	73.60	75.20
PDD138X-96	96	76.80	78.40
PDD138X-104	104	83.20	84.80
PDD138X-108	108	86.40	88.00
PDD138X-112	112	89.60	91.20
PDD138X-124	124	99.20	100.80

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle

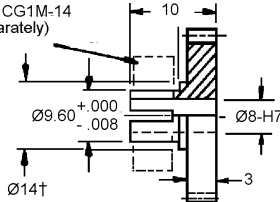
For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	CLAMP HUB	8	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



Use Clamp CG1M-14
(Order Separately)



B

STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
CDS64-14	CDA64-14	14†	11.20	12.80
CDS64-15	CDA64-15	15†	12.00	13.60
CDS64-16	CDA64-16	16†	12.80	14.40
CDS64-17	CDA64-17	17†	13.60	15.20
CDS64-18	CDA64-18	18†	14.40	16.00
CDS64-19	CDA64-19	19†	15.20	16.80
CDS64-20	CDA64-20	20	16.00	17.60
CDS64-22	CDA64-22	22	17.60	19.20
CDS64-24	CDA64-24	24	19.20	20.80
CDS64-25	CDA64-25	25	20.00	21.60
CDS64-26	CDA64-26	26	20.80	22.40
CDS64-28	CDA64-28	28	22.40	24.00
CDS64-30	CDA64-30	30	24.00	25.60
CDS64-32	CDA64-32	32	25.60	27.20
CDS64-34	CDA64-34	34	27.20	28.80
CDS64-36	CDA64-36	36	28.80	30.40
CDS64-38	CDA64-38	38	30.40	32.00
CDS64-39	CDA64-39	39	31.20	32.80
CDS64-40	CDA64-40	40	32.00	33.60
CDS64-45	CDA64-45	45	36.00	37.60
CDS64-48	CDA64-48	48	38.40	40.00
CDS64-50	CDA64-50	50	40.00	41.60
CDS64-54	CDA64-54	54	43.20	44.80
CDS64-55	CDA64-55	55	44.00	45.60
CDS64-56	CDA64-56	56	44.80	46.40
CDS64-60	CDA64-60	60	48.00	49.60
CDS64-64	CDA64-64	64	51.20	52.80
CDS64-65	CDA64-65	65	52.00	53.60
CDS64-68	CDA64-68	68	54.40	56.00
CDS64-70	CDA64-70	70	56.00	57.60
CDS64-72	CDA64-72	72	57.60	59.20
CDS64-76	CDA64-76	76	60.80	62.40
CDS64-80	CDA64-80	80	64.00	65.60
CDS64-88	CDA64-88	88	70.40	72.00
CDS64-90	CDA64-90	90	72.00	73.60
CDS64-96	CDA64-96	96	76.80	78.40
CDS64-112	CDA64-112	112	89.60	91.20
CDS64-127	CDA64-127	127	101.60	103.20
CDS64-128	CDA64-128	128	102.40	104.00
CDS64-132	CDA64-132	132	105.60	107.20

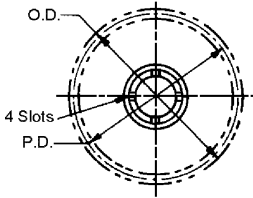
Available on request:
Other bore sizes;
numbers of teeth;
14-12° Pressure Angle;
Quality Class DIN 5/AGMA12

† Teeth may runout on flange diameter.

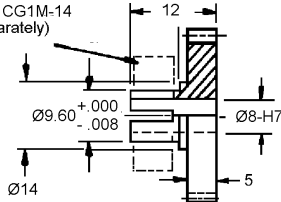
For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	CLAMP HUB	8	5	STAINLESS STEEL DIN 1.4305	DIN 7/AGMA 10	20°



Use Clamp CG1M-14
(Order Separately)



STAINLESS STEEL STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
CDS65-20	20	16.00	17.60
CDS65-21	21	16.80	18.40
CDS65-22	22	17.60	19.20
CDS65-23	23	18.40	20.00
CDS65-24	24	19.20	20.80
CDS65-25	25	20.00	21.60
CDS65-28	28	22.40	24.00
CDS65-30	30	24.00	25.60
CDS65-32	32	25.60	27.20
CDS65-36	36	28.80	30.40
CDS65-40	40	32.00	33.60
CDS65-48	48	38.40	40.00
CDS65-56	56	44.80	46.40
CDS65-60	60	48.00	49.60
CDS65-64	64	51.20	52.80
CDS65-72	72	57.60	59.20
CDS65-80	80	64.00	65.60
CDS65-96	96	76.80	78.40
CDS65-112	112	89.60	91.20
CDS65-128	128	102.40	104.00
CDS65-132	132	105.60	107.20

Available on request:
Other numbers of teeth;
14-12° Pressure Angle;
Quality Class DIN 5/AGMA12

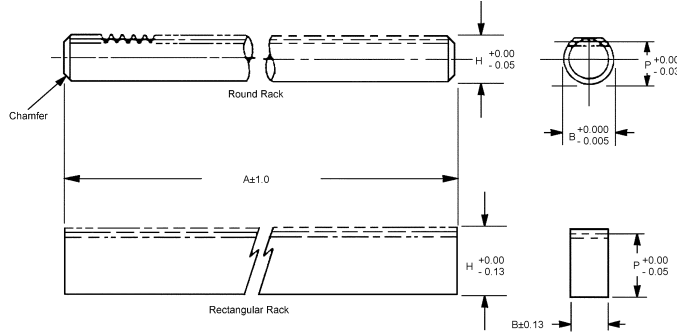
† Teeth may runout on flange diameter.

For Couplings See Section MG.

For Shafts, Bearings and Collars See Section MI.

GEAR RACKS

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	ROUND & RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°

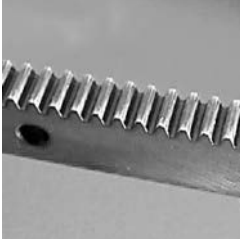
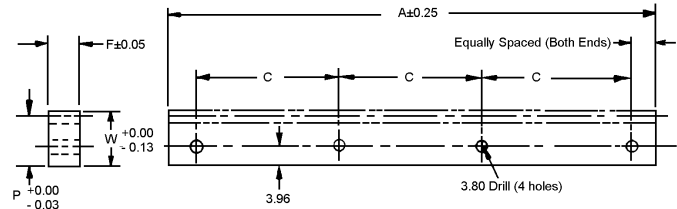


B

STOCK NO.	RACK STYLE	MOD.	P (Ref.)	B	A	H
R2M-4	ROUND	0.8	7.84	9.974	450	12.19
R3M-4	RECTANGULAR	0.8	11.39	5.84	450	12.19

Available on request: Special, modified and custom racks.

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



STOCK NO.	A	P (Ref.)	W	F	C
R4M-05	248.8	11.4	12.2	5.8	80.0

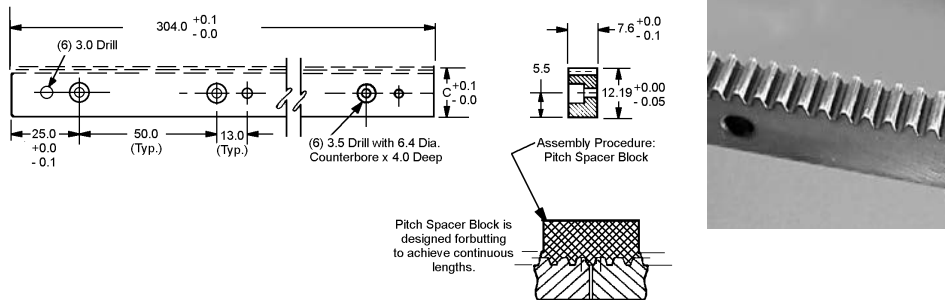
Available on request: Special, modified and custom racks.

Quality Class AGMA12/DIN 5 available on request.

Available on request: Special, modified and custom racks.

GEAR RACKS

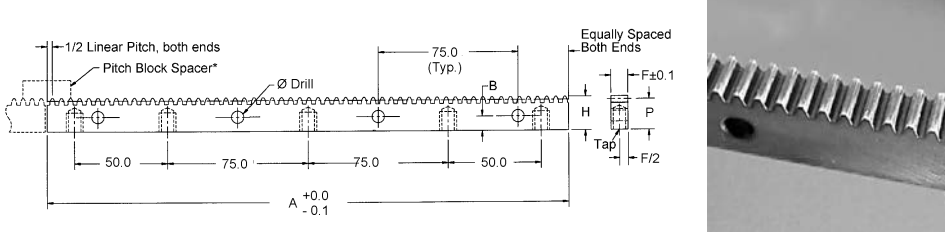
MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



RACKS STOCK NO.	SPACER BLOCKS STOCK NO.	MODULE	LINEAR PITCH	C
R8M-1-G1	R8M-1-SB	0.8	2.51	11.39

Available on request: special, modified and custom racks.
Quality Class AGMA 12/DIN 5 available on request.
Adjacent hole center ± 0.06
Accumulative hole centers ± 0.14

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



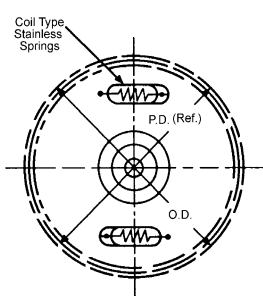
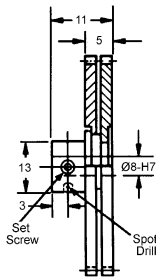
Spacer block is designed for butting to achieve continuous lengths.

RACKS	SPACER BLOCK									
STOCK NO.	STOCK NO.	LINEAR PITCH	A	P (REF.)	H ^{+0.00} / _{-0.13}	F	B	Ø DRILL	TAP	
R1M-4	R1M-4-SB	2.51	281.5	11.26	12.07	5.8	5.5	3.8	M4.0 X 0.7	

Quality Class AGMA 12/Din 5 available on request. Custom racks available on request.

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	PIN HUB	8	6	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APDMM-40-X	APDQM-40-X	40	32.00	33.6
APDMM-45-X	APDOM-45-X	45	36.00	37.6
APDMM-48-X	APDQM-48-X	48	38.40	40.0
APDMM-50-X	APDQM-50-X	50	40.00	41.6
APDMM-55-X	APDQM-55-X	55	44.00	45.6
APDMM-56-X	APDQM-56-X	56	44.80	46.4
APDMM-60-X	APDQM-60-X	60	48.00	49.6
APDMM-64-X	APDQM-64-X	64	51.20	52.8
APDMM-65-X	APDQM-65-X	65	52.00	53.6
APDMM-70-X	APDQM-70-X	70	56.00	57.6
APDMM-72-X	APDQM-72-X	72	57.60	59.2
APDMM-75-X	APDQM-75-X	75	60.00	61.6
APDMM-80-X	APDQM-80-X	80	64.00	65.6
APDMM-85-X	APDQM-85-X	85	66.00	69.6

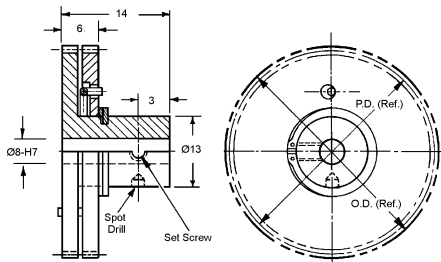
Available on request:
Other numbers of teeth;
Quality Class AGMA12 & 14 / DIN 5 & 3;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	PIN HUB	8	6	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°

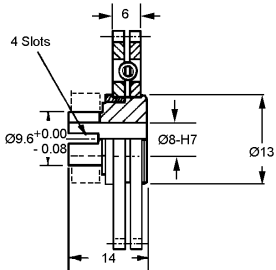


STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APDBSM-24-X	APDDSM-24-X	24	19.20	20.80
APDBSM-28-X	APDDSM-28-X	28	22.40	24.00
APDBSM-32-X	APDDSM-32-X	32	25.60	27.20

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	CLAMP HUB	8	6	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



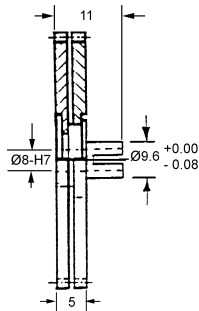
STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACDBSM-24-X	ACDDSM-24-X	24	19.20	20.80
ACDBSM-28-X	ACDDSM-28-X	28	22.40	24.00
ACDBSM-32-X	ACDDSM-32-X	32	25.60	27.20

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.8	CLAMP HUB	8	5	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACDMM-40-X	ACDQM-40-X	40	32.00	33.6
ACDMM-45-X	ACDOM-45-X	45	36.00	37.6
ACDMM-48-X	ACDQM-48-X	48	38.40	40.0
ACDMM-50-X	ACDQM-50-X	50	40.00	41.6
ACDMM-55-X	ACDQM-55-X	55	44.00	45.6
ACDMM-56-X	ACDQM-56-X	56	44.80	46.4
ACDMM-60-X	ACDQM-60-X	60	48.00	49.6
ACDMM-64-X	ACDQM-64-X	64	51.20	52.8
ACDMM-65-X	ACDQM-65-X	65	52.00	53.6
ACDMM-70-X	ACDQM-70-X	70	56.00	57.6
ACDMM-72-X	ACDQM-72-X	72	57.60	59.2
ACDMM-75-X	ACDQM-75-X	75	60.00	61.6
ACDMM-80-X	ACDQM-80-X	80	64.00	65.6
ACDMM-85-X	ACDQM-85-X	85	66.00	69.6

Available on request:

Other numbers of teeth;

Other Quality Classes;

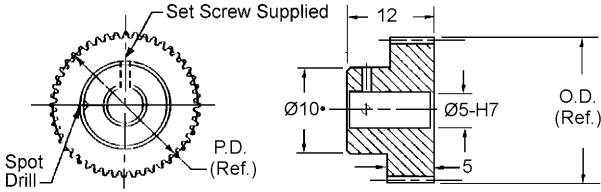
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.6	PIN HUB	5	5	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



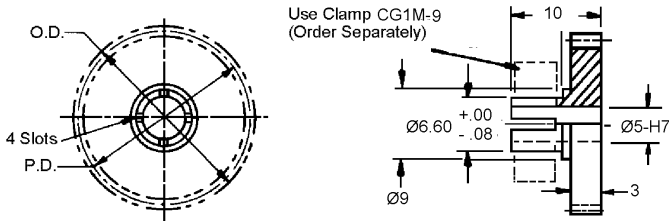
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PES83-18	PEA83-18	18*	10.80	12.00
PES83-20	PEA83-20	20	12.00	13.20
PES83-22	PEA83-22	22	13.20	14.40
PES83-24	PEA83-24	24	14.40	15.60
PES83-25	PEA83-25	25	15.00	16.20
PES83-26	PEA83-26	26	15.60	16.80
PES83-28	PEA83-28	28	16.80	18.00
PES83-30	PEA83-30	30	18.00	19.20
PES83-32	PEA83-32	32	19.20	20.40
PES83-36	PEA83-36	36	21.60	22.80
PES83-40	PEA83-40	40	24.00	25.20
PES83-42	PEA83-42	42	25.20	26.40
PES83-45	PEA83-45	45	27.00	28.20
PES83-48	PEA83-48	48	28.80	30.00
PES83-50	PEA83-50	50	30.00	31.20
PES83-54	PEA83-54	54	32.40	33.60
PES83-56	PEA83-56	56	33.60	34.80
PES83-60	PEA83-60	60	36.00	37.20
PES83-64	PEA83-64	64	38.40	39.60
PES83-70	PEA83-70	70	42.00	43.20
PES83-72	PEA83-72	72	43.20	44.40
PES83-75	PEA83-75	75	45.00	46.20
PES83-76	PEA83-76	76	45.60	46.80
PES83-80	PEA83-80	80	48.00	49.20
PES83-88	PEA83-88	88	52.80	54.00
PES83-90	PEA83-90	90	54.00	55.20
PES83-96	PEA83-96	96	57.60	58.80
PES83-100	PEA83-100	100	60.00	61.20
PES83-110	PEA83-110	110	66.00	67.20
PES83-120	PEA83-120	120	72.00	73.20
PES83-124	PEA83-124	124	74.40	75.60
PES83-128	PEA83-128	128	76.80	78.00

Available on request:
 Other numbers of teeth;
 14 - 1/2° pressure angle;
 Quality Class AGMA 12 and 14 / DIN 5 and 3
 • For 17 - 18 teeth hub diameter equals 8.0

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.6	CLAMP HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



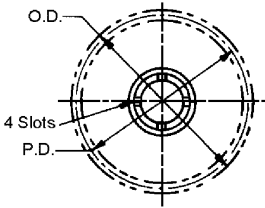
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
CES52-20	CEA52-20	20	12.00	13.20
CES52-24	CEA52-24	24	14.40	15.60
CES52-28	CEA52-28	28	16.80	18.00
CES52-30	CEA52-30	30	18.00	19.20
CES52-32	CEA52-32	32	19.20	20.40
CES52-40	CEA52-40	40	24.00	25.20
CES52-46	CEA52-46	46	27.60	28.80
CES52-48	CEA52-48	48	28.80	30.00
CES52-56	CEA52-56	56	33.60	34.80
CES52-60	CEA52-60	60	36.00	37.20
CES52-66	CEA52-66	66	39.60	40.80
CES52-70	CEA52-70	70	42.00	43.20
CES52-72	CEA52-72	72	43.20	44.40
CES52-84	CEA52-84	84	50.40	51.60
CES52-90	CEA52-90	90	54.00	55.20
CES52-96	CEA52-96	96	57.60	58.80
CES52-100	CEA52-100	100	60.00	61.20
CES52-102	CEA52-102	102	61.20	62.40
CES52-105	CEA52-105	105	63.00	64.20
CES52-108	CEA52-108	108	64.80	66.00
CES52-110	CEA52-110	110	66.00	67.20
CES52-114	CEA52-114	114	68.40	69.60
CES52-120	CEA52-120	120	72.00	73.20
CES52-126	CEA52-126	126	75.60	76.80
CES52-132	CEA52-132	132	79.20	80.40
CES52-138	CEA52-138	138	82.80	84.00
CES52-140	CEA52-140	140	84.00	85.20
CES52-144	CEA52-144	144	86.40	87.60
CES52-150	CEA52-150	150	90.00	91.20
CES52-156	CEA52-156	156	93.60	94.80
CES52-160	CEA52-160	160	96.00	97.20
CES52-168	CEA52-168	168	100.80	102.00
CES52-170	CEA52-170	170	102.00	103.20

Available on request:
Other bore sizes;
numbers of teeth;
14-12° Pressure Angle;
Quality Class DIN 5/AGMA12

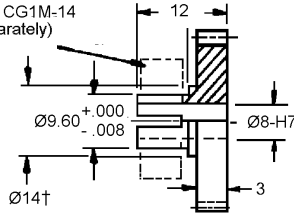
For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.6	CLAMP HUB	8	3	STAINLESS STEEL DIN 1.4305	DIN 7/AGMA 10	20°



Use Clamp CG1M-14
(Order Separately)



STAINLESS STEEL STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
CES64-23	23†	13.80	15.00
CES64-24	24†	14.00	15.60
CES64-25	25†	15.00	16.20
CES64-28	28	16.80	18.00
CES64-30	30	18.00	19.20
CES64-32	32	19.20	20.40
CES64-36	36	21.60	22.80
CES64-40	40	24.00	25.20
CES64-42	42	25.20	26.40
CES64-45	45	27.00	28.20
CES64-48	48	28.80	30.00
CES64-50	50	30.00	31.20
CES64-54	54	32.40	33.60
CES64-60	60	36.00	37.20
CES64-70	70	42.00	42.20
CES64-72	72	43.20	44.40
CES64-75	75	45.00	46.20
CES64-78	78	46.80	48.00
CES64-80	80	48.00	49.20
CES64-84	84	50.40	51.60
CES64-88	88	52.80	54.00
CES64-90	90	54.00	55.20
CES64-96	96	57.60	58.80
CES64-100	100	60.00	61.20
CES64-108	108	64.80	66.00
CES64-112	112	67.20	68.40
CES64-120	120	72.00	73.20
CES64-128	128	76.80	78.00
CES64-132	132	79.20	80.40
CES64-144	144	86.40	87.60
CES64-150	150	90.00	91.20
CES64-162	162	97.20	98.40
CES64-168	168	100.80	102.00

Available on request:
Other numbers of teeth;
14-12° Pressure Angle;
Quality Class DIN 5/AGMA12

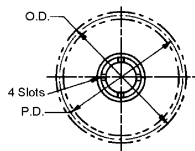
† Teeth may runout on flange diameter.

For Couplings See Section MG.

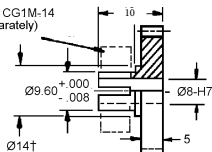
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.6	CLAMP HUB	8	5	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



Use Clamp CG1M-14
(Order Separately)



Available on request:
Other bore sizes;
numbers of teeth;
14-12° Pressure Angle;
Quality Class DIN 5/AGMA12

† Teeth may runout on
flange diameter.

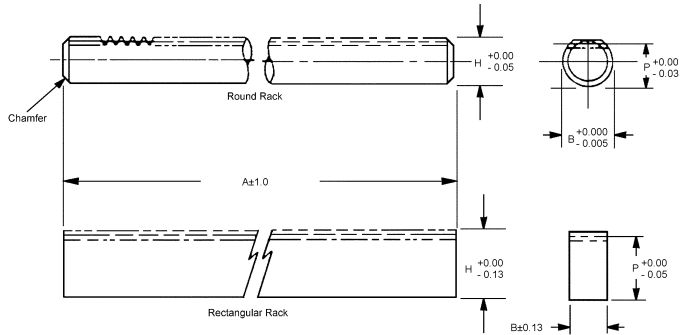
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
CES65-20	CEA65-20	20†	12.00	13.20
CES65-21	CEA65-21	21†	12.60	13.80
CES65-22	CEA65-22	22†	13.20	14.40
CES65-23	CEA65-23	23†	13.80	15.00
CES65-24	CEA65-24	24†	14.40	15.60
CES65-25	CEA65-25	25†	15.00	16.80
CES65-26	CEA65-26	26	15.60	17.40
CES65-27	CEA65-27	27	16.20	18.00
CES65-28	CEA65-28	28	16.80	18.60
CES65-29	CEA65-29	29	17.40	19.20
CES65-30	CEA65-30	30	18.00	20.40
CES65-32	CEA65-32	32	19.20	21.60
CES65-34	CEA65-34	34	20.40	22.50
CES65-35	CEA65-35	35	21.00	22.20
CES65-36	CEA65-36	36	21.60	22.80
CES65-38	CEA65-38	38	22.80	24.00
CES65-40	CEA65-40	40	24.00	25.20
CES65-42	CEA65-42	42	25.20	26.40
CES65-44	CEA65-44	44	26.40	27.40
CES65-45	CEA65-45	45	27.00	28.20
CES65-46	CEA65-46	46	27.60	28.80
CES65-47	CEA65-47	47	28.20	29.40
CES65-48	CEA65-48	48	28.80	30.00
CES65-50	CEA65-50	50	30.00	31.20
CES65-54	CEA65-54	54	32.40	33.60
CES65-55	CEA65-55	55	33.00	34.20
CES65-56	CEA65-56	56	33.60	34.80
CES65-60	CEA65-60	60	36.00	37.20
CES65-64	CEA65-64	64	38.40	39.60
CES65-66	CEA65-66	66	39.60	40.80
CES65-68	CEA65-68	68	40.80	42.00
CES65-70	CEA65-70	70	42.00	43.20
CES65-72	CEA65-72	72	43.20	44.40
CES65-75	CEA65-75	75	45.00	46.20
CES65-78	CEA65-78	78	46.80	48.00
CES65-80	CEA65-80	80	48.00	49.20
CES65-81	CEA65-81	81	48.60	49.80
CES65-84	CEA65-84	84	50.40	51.60
CES65-85	CEA65-85	85	51.00	52.20
CES65-88	CEA65-88	88	52.80	54.00
CES65-90	CEA65-90	90	54.00	55.20
CES65-91	CEA65-91	91	54.60	55.80
CES65-92	CEA65-92	92	55.20	56.40
CES65-93	CEA65-93	93	55.80	57.00
CES65-96	CEA65-96	96	57.60	58.80
CES65-100	CEA65-100	100	60.00	61.20
CES65-102	CEA65-102	102	61.20	62.40
CES65-104	CEA65-104	104	62.40	63.60
CES65-105	CEA65-105	105	63.00	64.20
CES65-108	CEA65-108	108	64.80	66.00
CES65-112	CEA65-112	112	67.20	68.40
CES65-114	CEA65-114	114	68.40	69.60
CES65-120	CEA65-120	120	72.00	73.20
CES65-126	CEA65-126	126	75.60	76.80
CES65-127	CEA65-127	127	76.20	77.40
CES65-128	CEA65-128	128	76.80	78.00
CES65-132	CEA65-132	132	79.20	80.40
CES65-136	CEA65-136	136	81.60	82.80
CES65-138	CEA65-138	138	82.80	84.00
CES65-144	CEA65-144	144	86.40	87.60
CES65-150	CEA65-150	150	90.00	91.20
CES65-152	CEA65-152	152	91.20	92.40
CES65-156	CEA65-156	156	93.60	94.80
CES65-162	CEA65-162	162	97.20	98.40
CES65-168	CEA65-168	168	100.80	102.00
CES65-171	CEA65-171	171	102.60	103.80
CES65-175	CEA65-175	175	105.00	106.20

For Couplings See Section MG.

For Shafts, Bearings and Collars See Section MI.

GEAR RACKS

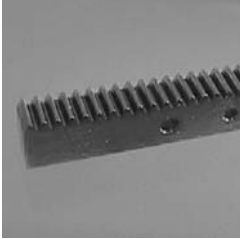
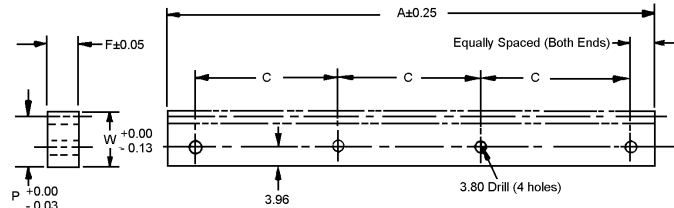
MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.6	ROUND & RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



STOCK NO.	RACK STYLE	MOD.	P (Ref.)	B	A	H
R2M-5	ROUND	0.6	4.99	5.974	450	5.59
R3M-5	RECTANGULAR	0.6	11.59	5.84	450	12.19

Available on request: Special, modified and custom racks.

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.6	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



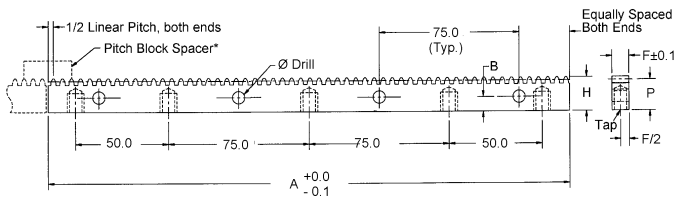
STOCK NO.	A	P (Ref.)	W	F	C
R4M-17	244.3	11.6	12.2	5.8	70.0

Available on request: Special, modified and custom racks.

Quality Class AGMA12/DIN 5 available on request.

GEAR RACKS

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.6	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



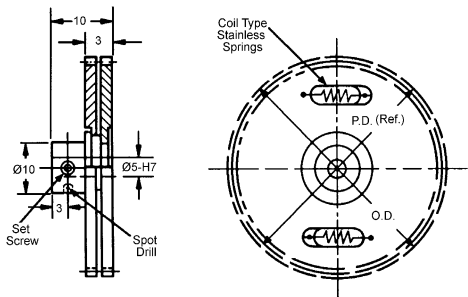
Spacer block is designed for butting to achieve continuous lengths.

RACKS	SPACER BLOCK								
STOCK NO.	STOCK NO.	LINEAR PITCH	A	P (REF.)	H +0.00 / -0.13	F	B	Ø DRILL	TAP
R1M-5	R1M-5-SB	1.88	280.9	11.47	12.07	5.8	5.5	3.8	M4.0 X 0.7

Quality Class AGMA 12/Din 5 available on request. Custom racks available on request.

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.6	PIN HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APEUM-65	APEVM-65	65	39.00	40.2
APEUM-70	APEVM-70	70	42.00	43.2
APEUM-72	APEVM-72	72	43.20	44.4
APEUM-75	APEVM-75	75	45.00	46.2
APEUM-80	APEVM-80	80	48.00	49.2
APEUM-84	APEVM-84	84	50.40	51.6
APEUM-85	APEVM-85	85	51.00	52.2
APEUM-90	APEVM-90	90	54.00	55.2
APEUM-95	APEVM-95	95	57.00	58.2
APEUM-96	APEVM-96	96	57.60	58.8
APEUM-100	APEVM-100	100	60.00	61.2
APEUM-105	APEVM-105	105	63.00	64.2
APEUM-110	APEVM-110	110	66.00	67.2
APEUM-115	APEVM-115	115	69.00	70.2
APEUM-120	APEVM-120	120	72.00	73.2
APEUM-125	APEVM-125	125	75.00	76.2
APEUM-130	APEVM-130	130	78.00	79.2
APEUM-132	APEVM-132	132	79.20	80.4
APEUM-140	APEVM-140	140	84.00	85.2
APEUM-144	APEVM-144	144	88.40	87.6
APEUM-150	APEVM-150	150	90.00	91.2

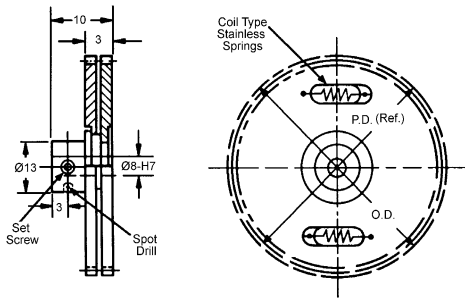
Available on request:
Other numbers of teeth;
Quality Class AGMA12 & 14 / DIN 5 & 3;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.6	PIN HUB	8	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APEWM-65-X	APEXM-65-X	65	39.00	40.2
APEWM-70-X	APEXM-70-X	70	42.00	43.2
APEWM-72-X	APEXM-72-X	72	43.20	44.4
APEWM-75-X	APEXM-75-X	75	45.00	46.2
APEWM-80-X	APEXM-80-X	80	48.00	49.2
APEWM-84-X	APEXM-84-X	84	50.40	51.6
APEWM-85-X	APEXM-85-X	85	51.00	52.2
APEWM-90-X	APEXM-90-X	90	54.00	55.2
APEWM-95-X	APEXM-95-X	95	57.00	58.2
APEWM-96-X	APEXM-96-X	96	57.60	58.8
APEWM-100-X	APEXM-100-X	100	60.00	61.2
APEWM-105-X	APEXM-105-X	105	63.00	64.2
APEWM-110-X	APEXM-110-X	110	66.00	67.2
APEWM-115-X	APEXM-115-X	115	69.00	70.2
APEWM-120-X	APEXM-120-X	120	72.00	73.2
APEWM-125-X	APEXM-125-X	125	75.00	76.2
APEWM-130-X	APEXM-130-X	130	78.00	79.2
APEWM-132-X	APEXM-132-X	132	79.20	80.4
APEWM-140-X	APEXM-140-X	140	84.00	85.2
APEWM-144-X	APEXM-144-X	144	88.40	87.6
APEWM-150-X	APEXM-150-X	150	90.00	91.2

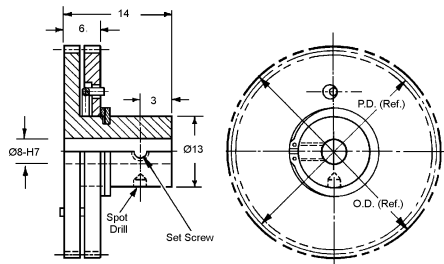
Available on request:
Other numbers of teeth;
Quality Class AGMA12 & 14 / DIN 5 & 3;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

ANTI-BACKLASH GEARS

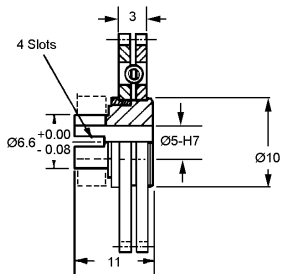
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.6	PIN HUB	8	6	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APEBSM-28-X	APEDSM-28-X	28	16.80	18.00
APEBSM-32-X	APEDSM-32-X	32	19.20	20.40
APEBSM-36-X	APEDSM-36-X	36	21.60	22.80

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.6	CLAMP HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°

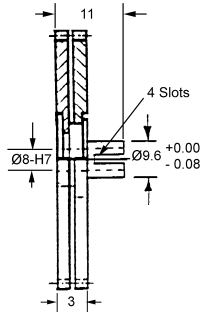


STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACEUM-65	ACEVM-65	65	39.00	40.2
ACEUM-70	ACEVM-70	70	42.00	43.2
ACEUM-72	ACEVM-72	72	43.20	44.4
ACEUM-75	ACEVM-75	75	45.00	46.2
ACEUM-80	ACEVM-80	80	48.00	49.2
ACEUM-84	ACEVM-84	84	50.40	51.6
ACEUM-85	ACEVM-85	85	51.00	52.2
ACEUM-90	ACEVM-90	90	54.00	55.2
ACEUM-95	ACEVM-95	95	57.00	58.2
ACEUM-96	ACEVM-96	96	57.60	58.8
ACEUM-100	ACEVM-100	100	60.00	61.2
ACEUM-105	ACEVM-105	105	63.00	64.2
ACEUM-110	ACEVM-110	110	66.00	67.2
ACEUM-115	ACEVM-115	115	69.00	70.2
ACEUM-120	ACEVM-120	120	72.00	73.2
ACEUM-125	ACEVM-125	125	75.00	76.2
ACEUM-130	ACEVM-130	130	78.00	79.2
ACEUM-132	ACEVM-132	132	79.20	80.4
ACEUM-140	ACEVM-140	140	84.00	85.2
ACEUM-144	ACEVM-144	144	88.40	87.6
ACEUM-150	ACEVM-150	150	90.00	91.2

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.6	CLAMP HUB	8	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACEWM-65-X	ACEXM-65-X	65	39.00	40.2
ACEWM-70-X	ACEXM-70-X	70	42.00	43.2
ACEWM-72-X	ACEXM-72-X	72	43.20	44.4
ACEWM-75-X	ACEXM-75-X	75	45.00	46.2
ACEWM-80-X	ACEXM-80-X	80	48.00	49.2
ACEWM-84-X	ACEXM-84-X	84	50.40	51.6
ACEWM-85-X	ACEXM-85-X	85	51.00	52.2
ACEWM-90-X	ACEXM-90-X	90	54.00	55.2
ACEWM-95-X	ACEXM-95-X	95	57.00	58.2
ACEWM-96-X	ACEXM-96-X	96	57.60	58.8
ACEWM-100-X	ACEXM-100-X	100	60.00	61.2
ACEWM-105-X	ACEXM-105-X	105	63.00	64.2
ACEWM-110-X	ACEXM-110-X	110	66.00	67.2
ACEWM-115-X	ACEXM-115-X	115	69.00	70.2
ACEWM-120-X	ACEXM-120-X	120	72.00	73.2
ACEWM-125-X	ACEXM-125-X	125	75.00	76.2
ACEWM-130-X	ACEXM-130-X	130	78.00	79.2
ACEWM-132-X	ACEXM-132-X	132	79.20	80.4
ACEWM-140-X	ACEXM-140-X	140	84.00	85.2
ACEWM-144-X	ACEXM-144-X	144	88.40	87.6
ACEWM-150-X	ACEXM-150-X	150	90.00	91.2

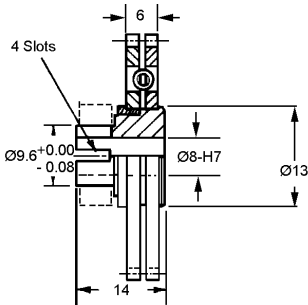
Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.6	CLAMP HUB	8	6	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



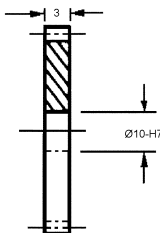
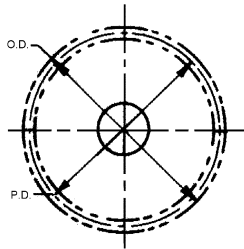
STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACEBSM-28-X	ACEDSM-28-X	28	16.80	18.00
ACEBSM-32-X	ACEDSM-32-X	32	19.20	20.40
ACEBSM-36-X	ACEDSM-36-X	36	21.60	22.80

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

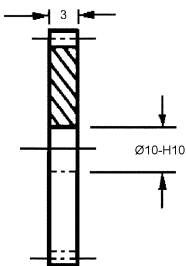
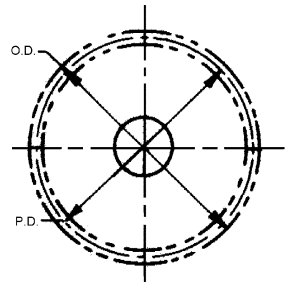
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	HUBLESS	10	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



Available on request:
Other numbers of teeth;
Quality Class AGMA 12 & 14 / DIN 5 & 3;
14 - 1/2° pressure angle.

STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FFS103-30	FFA103-30	30	15.00	16.00
FFS103-32	FFA103-32	32	16.00	17.00
FFS103-40	FFA103-40	40	20.00	21.00
FFS103-42	FFA103-42	42	21.00	22.00
FFS103-44	FFA103-44	44	22.00	23.00
FFS103-48	FFA103-48	48	24.00	25.00
FFS103-50	FFA103-50	50	25.00	26.00
FFS103-54	FFA103-54	54	27.00	28.00
FFS103-60	FFA103-60	60	30.00	31.00
FFS103-64	FFA103-64	64	32.00	33.00
FFS103-65	FFA103-65	65	32.50	33.50
FFS103-70	FFA103-70	70	35.00	36.00
FFS103-72	FFA103-72	72	36.00	37.00
FFS103-75	FFA103-75	75	37.50	38.50
FFS103-80	FFA103-80	80	40.00	41.00
FFS103-84	FFA103-84	84	42.00	43.00
FFS103-85	FFA103-85	85	42.50	43.50
FFS103-90	FFA103-90	90	45.00	46.00
FFS103-96	FFA103-96	96	48.00	49.00
FFS103-100	FFA103-100	100	50.00	51.00
FFS103-105	FFA103-105	105	52.50	53.50
FFS103-108	FFA103-108	108	54.00	55.00
FFS103-110	FFA103-110	110	55.00	56.00
FFS103-114	FFA103-114	114	57.00	58.00
FFS103-120	FFA103-120	120	60.00	61.00
FFS103-125	FFA103-125	125	62.50	63.50
FFS103-130	FFA103-130	130	65.00	66.00
FFS103-132	FFA103-132	132	66.00	67.00
FFS103-135	FFA103-135	135	67.50	68.50
FFS103-138	FFA103-138	138	69.00	70.00
FFS103-140	FFA103-140	140	70.00	71.00
FFS103-144	FFA103-144	144	72.00	73.00
FFS103-150	FFA103-150	150	75.00	76.00
FFS103-156	FFA103-156	156	78.00	79.00
FFS103-160	FFA103-160	160	80.00	81.00
FFS103-168	FFA103-168	168	84.00	85.00
FFS103-170	FFA103-170	170	85.00	86.00
FFS103-180	FFA103-180	180	90.00	91.00
FFS103-186	FFA103-186	186	93.00	94.00
FFS103-190	FFA103-190	190	95.00	96.00
FFS103-192	FFA103-192	192	96.00	97.00

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	HUBLESS	10	3	POLYURETHANE WITH LUBRICANT	DIN 7/AGMA 10	20°

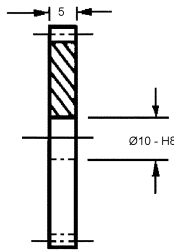
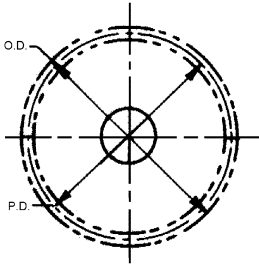


STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FFU103-48	48	24.00	25.00
FFU103-60	60	30.00	31.00
FFU103-72	72	36.00	37.00
FFU103-84	84	42.00	43.00
FFU103-96	96	48.00	49.00
FFU103-108	108	54.00	55.00

Available on request:
Other numbers of teeth;
Quality Class AGMA 12 & 14 / DIN 5 & 3;
14 - 1/2° pressure angle.

SPUR GEARS

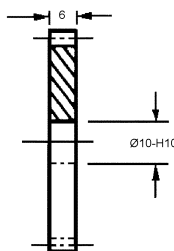
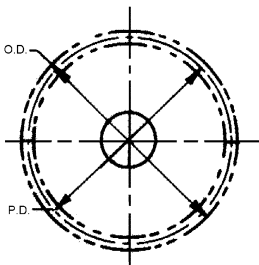
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	HUBLESS	10	5	DELTRIN	DIN 8/AGMA 9	20°



Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FFD105-28	28	14.00	15.00
FFD105-29	29	14.50	15.50
FFD105-30	30	15.00	16.00
FFD105-32	32	16.00	17.00
FFD105-34	34	17.00	18.00
FFD105-36	36	18.00	19.00
FFD105-38	38	19.00	20.00
FFD105-40	40	20.00	21.00
FFD105-42	42	21.00	22.00
FFD105-44	44	22.00	23.00
FFD105-46	46	23.00	24.00
FFD105-48	48	24.00	25.00
FFD105-50	50	25.00	26.00
FFD105-55	55	27.50	28.50
FFD105-56	56	28.00	29.00
FFD105-60	60	30.00	31.00
FFD105-64	64	32.00	33.00
FFD105-68	68	34.00	35.00
FFD105-72	72	36.00	37.00
FFD105-75	75	37.50	38.50
FFD105-80	80	40.00	41.00
FFD105-84	84	42.00	43.00
FFD105-90	90	45.00	46.00
FFD105-92	92	46.00	47.00
FFD105-96	96	48.00	49.00
FFD105-100	100	50.00	51.00
FFD105-110	110	55.00	56.00
FFD105-120	120	60.00	61.00
FFD105-132	132	66.00	67.00
FFD105-138	138	69.00	70.00
FFD105-144	144	72.00	73.00
FFD105-156	156	78.00	79.00
FFD105-168	168	84.00	85.00
FFD105-180	180	90.00	91.00
FFD105-186	186	93.00	94.00

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	HUBLESS	10	6	POLYMRETHANE	DIN 7/AGMA 10	20°

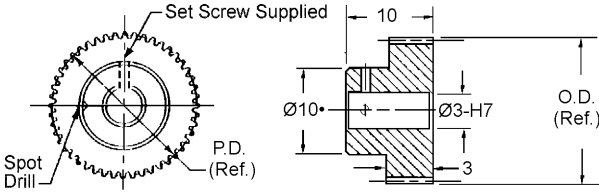


STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FFU103-120	120	60.00	61.00
FFU103-144	144	72.00	73.00
FFU103-168	168	84.00	85.00
FFU103-192	192	96.00	97.00

Available on request:
Other numbers of teeth;
Quality Class AGMA 12 & 14 / DIN 5 & 3;
14 - 1/2° pressure angle.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	PIN HUB	3	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



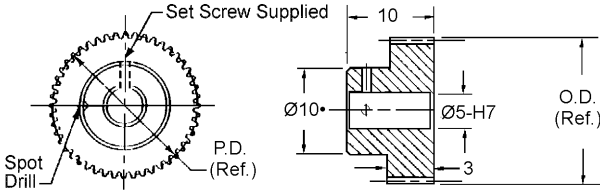
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PFS80-18	PFA80-18	18•	9.00	10.00
PFS80-19	PFA80-19	19•	9.50	10.50
PFS80-20	PFA80-20	20•	10.00	11.00
PFS80-21	PFA80-21	21•	10.50	11.50
PFS80-22	PFA80-22	22•	11.00	12.00
PFS80-24	PFA80-24	24	12.00	13.00
PFS80-25	PFA80-25	25	12.50	13.50
PFS80-26	PFA80-26	26	13.00	14.00
PFS80-27	PFA80-27	27	13.50	14.50
PFS80-28	PFA80-28	28	14.00	15.00
PFS80-30	PFA80-30	30	15.00	16.00
PFS80-32	PFA80-32	32	16.00	17.00
PFS80-34	PFA80-34	34	17.00	18.00
PFS80-36	PFA80-36	36	18.00	19.00
PFS80-40	PFA80-40	40	20.00	21.00
PFS80-42	PFA80-42	42	21.00	22.00
PFS80-46	PFA80-46	46	23.00	24.00
PFS80-48	PFA80-48	48	24.00	25.00
PFS80-50	PFA80-50	50	25.00	26.00
PFS80-55	PFA80-55	55	27.50	28.50
PFS80-56	PFA80-56	56	28.00	29.00
PFS80-60	PFA80-60	60	30.00	31.00
PFS80-64	PFA80-64	64	32.00	33.00
PFS80-65	PFA80-65	65	32.50	33.50
PFS80-70	PFA80-70	70	35.00	36.00
PFS80-72	PFA80-72	72	36.00	37.00
PFS80-75	PFA80-75	75	37.50	38.50
PFS80-80	PFA80-80	80	40.00	41.00
PFS80-84	PFA80-84	84	42.00	43.00
PFS80-85	PFA80-85	85	42.50	43.50
PFS80-90	PFA80-90	90	45.00	46.00
PFS80-96	PFA80-96	96	48.00	49.00
PFS80-100	PFA80-100	100	50.00	51.00
PFS80-102	PFA80-102	102	51.00	52.00
PFS80-105	PFA80-105	105	52.50	53.50
PFS80-110	PFA80-110	110	55.00	56.00
PFS80-120	PFA80-120	120	60.00	61.00

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle;
Quality Class AGMA 12 and 14 / DIN 5 and 3
• For 14 - 22 teeth hub diameter equals 5.6

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	PIN HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



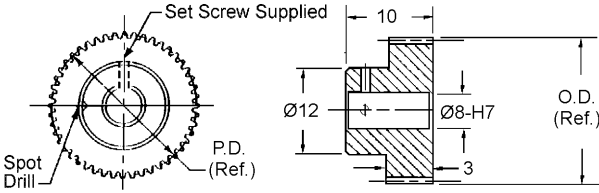
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PFS82-20	PFA82-20	20•	10.00	11.00
PFS82-21	PFA82-21	21•	10.50	11.50
PFS82-22	PFA82-22	22•	11.00	12.00
PFS82-23	PFA82-23	23	11.50	12.50
PFS82-24	PFA82-24	24	12.00	13.00
PFS82-25	PFA82-25	25	12.50	13.50
PFS82-28	PFA82-28	28	14.00	15.00
PFS82-30	PFA82-30	30	15.00	16.00
PFS82-32	PFA82-32	32	16.00	17.00
PFS82-34	PFA82-34	34	17.00	18.00
PFS82-36	PFA82-36	36	18.00	19.00
PFS82-40	PFA82-40	40	20.00	21.00
PFS82-42	PFA82-42	42	21.00	22.00
PFS82-46	PFA82-46	46	23.00	24.00
PFS82-48	PFA82-48	48	24.00	25.00
PFS82-50	PFA82-50	50	25.00	26.00
PFS82-60	PFA82-60	60	30.00	31.00
PFS82-64	PFA82-64	64	32.00	33.00
PFS82-70	PFA82-70	70	35.00	36.00
PFS82-72	PFA82-72	72	36.00	37.00
PFS82-80	PFA82-80	80	40.00	41.00
PFS82-84	PFA82-84	84	42.00	43.00
PFS82-90	PFA82-90	90	45.00	46.00
PFS82-96	PFA82-96	96	48.00	49.00
PFS82-105	PFA82-105	105	52.50	53.50
PFS82-120	PFA82-120	120	60.00	61.00
PFS82-132	PFA82-132	132	66.00	67.00
PFS82-144	PFA82-144	144	72.00	73.00
PFS82-156	PFA82-156	156	78.00	79.00
PFS82-168	PFA82-168	168	84.00	85.00
PFS82-190	PFA82-190	190	95.00	96.00
PFS82-192	PFA82-192	192	96.00	97.00

Available on request:
 Other numbers of teeth;
 14 - 1/2° pressure angle;
 Quality Class AGMA 12 and 14 / DIN 5 and 3
 • For 20 - 22 teeth hub diameter equals 8.1

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	PIN HUB	8	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



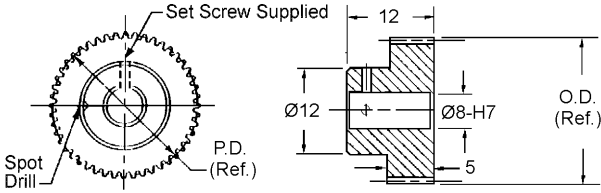
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PFS94-28	PFA94-28	28	14.00	15.00
PFS94-30	PFA94-30	30	15.00	16.00
PFS94-32	PFA94-32	32	16.00	17.00
PFS94-35	PFA94-35	35	17.50	18.50
PFS94-36	PFA94-36	36	18.00	19.00
PFS94-40	PFA94-40	40	20.00	21.00
PFS94-42	PFA94-42	42	21.00	22.00
PFS94-44	PFA94-44	44	22.00	23.00
PFS94-45	PFA94-45	45	22.50	23.50
PFS94-46	PFA94-46	46	23.00	24.00
PFS94-48	PFA94-48	48	24.00	25.00
PFS94-50	PFA94-50	50	25.00	26.00
PFS94-54	PFA94-54	54	27.00	28.00
PFS94-55	PFA94-55	55	27.50	28.50
PFS94-56	PFA94-56	56	28.00	29.00
PFS94-60	PFA94-60	60	30.00	31.00
PFS94-64	PFA94-64	64	32.00	33.00
PFS94-65	PFA94-65	65	32.50	33.50
PFS94-70	PFA94-70	70	35.00	36.00
PFS94-72	PFA94-72	72	36.00	37.00
PFS94-75	PFA94-75	75	37.50	38.50
PFS94-78	PFA94-78	78	39.00	40.00
PFS94-80	PFA94-80	80	40.00	41.00
PFS94-84	PFA94-84	84	42.00	43.00
PFS94-85	PFA94-85	85	42.50	43.50
PFS94-90	PFA94-90	90	45.00	46.00
PFS94-96	PFA94-96	96	48.00	49.00
PFS94-100	PFA94-100	100	50.00	51.00
PFS94-105	PFA94-105	105	52.50	53.50
PFS94-108	PFA94-108	108	54.00	55.00
PFS94-110	PFA94-110	110	55.00	56.00
PFS94-120	PFA94-120	120	60.00	61.00
PFS94-126	PFA94-126	126	63.00	64.00
PFS94-132	PFA94-132	132	66.00	67.00
PFS94-140	PFA94-140	140	70.00	71.00
PFS94-144	PFA94-144	144	72.00	73.00
PFS94-145	PFA94-145	145	72.50	73.50
PFS94-150	PFA94-150	150	75.00	76.00
PFS94-156	PFA94-156	156	78.00	79.00
PFS94-160	PFA94-160	160	80.00	81.00
PFS94-168	PFA94-168	168	84.00	85.00
PFS94-180	PFA94-180	180	90.00	91.00
PFS94-192	PFA94-192	192	96.00	97.00

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle;
Quality Class AGMA 12 and 14 / DIN 5 and 3

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	PIN HUB	8	5	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



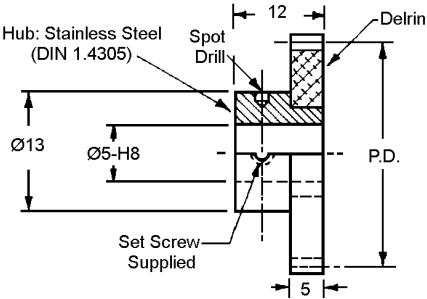
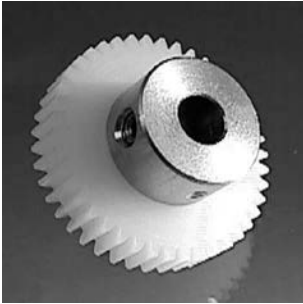
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PFS95-27	PFA95-27	27	13.50	14.50
PFS95-28	PFA95-28	28	14.00	15.00
PFS95-29	PFA95-29	29	14.50	15.50
PFS95-30	PFA95-30	30	15.00	16.00
PFS95-32	PFA95-32	32	16.00	17.00
PFS95-34	PFA95-34	34	17.00	18.00
PFS95-36	PFA95-36	36	18.00	19.00
PFS95-40	PFA95-40	40	20.00	21.00
PFS95-42	PFA95-42	42	21.00	22.00
PFS95-45	PFA95-45	45	22.50	23.50
PFS95-48	PFA95-48	48	24.00	25.00
PFS95-50	PFA95-50	50	25.00	26.00
PFS95-55	PFA95-55	55	27.50	28.50
PFS95-56	PFA95-56	56	28.00	29.00
PFS95-60	PFA95-60	60	30.00	31.00
PFS95-64	PFA95-64	64	32.00	33.00
PFS95-65	PFA95-65	65	32.50	33.50
PFS95-70	PFA95-70	70	35.00	36.00
PFS95-72	PFA95-72	72	36.00	37.00
PFS95-75	PFA95-75	75	37.50	38.50
PFS95-80	PFA95-80	80	40.00	41.00
PFS95-84	PFA95-84	84	42.00	43.00
PFS95-85	PFA95-85	85	42.50	43.50
PFS95-90	PFA95-90	90	45.00	46.00
PFS95-95	PFA95-95	95	47.50	48.50
PFS95-96	PFA95-96	96	48.00	49.00
PFS95-100	PFA95-100	100	50.00	51.00
PFS95-105	PFA95-105	105	52.50	53.50
PFS95-108	PFA95-108	108	54.00	55.00
PFS95-110	PFA95-110	110	55.00	56.00
PFS95-120	PFA95-120	120	60.00	61.00
PFS95-128	PFA95-128	128	64.00	65.00
PFS95-168	PFA95-168	168	84.00	85.00
PFS95-192	PFA95-192	192	96.00	97.00
PFS95-198	PFA95-198	198	99.00	100.00

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle;
Quality Class AGMA 12 and 14 / DIN 5 and 3

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	PIN HUB	5	5	DELTRIN	DIN 8/AGMA 9	20°



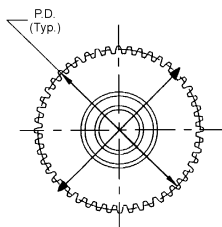
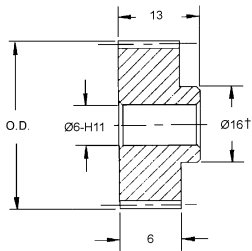
STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PFD121X-28	28	14.00	15.00
PFD121X-29	29	14.50	15.50
PFD121X-30	30	15.00	16.00
PFD121X-32	32	16.00	17.00
PFD121X-34	34	17.00	18.00
PFD121X-36	36	18.00	19.00
PFD121X-38	38	19.00	20.00
PFD121X-40	40	20.00	21.00
PFD121X-42	42	21.00	22.00
PFD121X-44	44	22.00	23.00
PFD121X-46	46	23.00	24.00
PFD121X-48	48	24.00	25.00
PFD121X-50	50	25.00	26.00
PFD121X-55	55	27.50	28.50
PFD121X-56	56	28.00	29.00
PFD121X-60	60	30.00	31.00
PFD121X-64	64	32.00	33.00
PFD121X-68	68	34.00	35.00
PFD121X-72	72	36.00	37.00
PFD121X-75	75	37.50	38.50
PFD121X-80	80	40.00	41.00
PFD121X-84	84	42.00	43.00
PFD121X-90	90	45.00	46.00
PFD121X-92	92	46.00	47.00
PFD121X-96	96	48.00	49.00
PFD121X-100	100	50.00	51.00
PFD121X-110	110	55.00	56.00
PFD121X-120	120	60.00	61.00
PFD121X-132	132	66.00	67.00
PFD121X-138	138	69.00	70.00
PFD121X-144	144	72.00	73.00
PFD121X-156	156	78.00	79.00
PFD121X-168	168	84.00	85.00
PFD121X-180	180	90.00	91.00
PFD121X-186	186	93.00	94.00

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	PIN HUB	6	6	MOLDED DELRIN	DIN 12/AGMA 5	20°



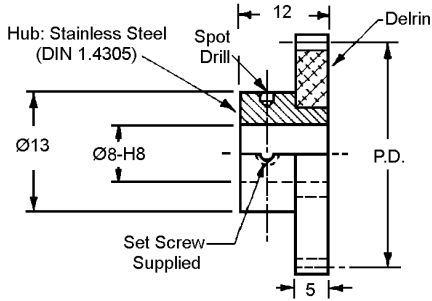
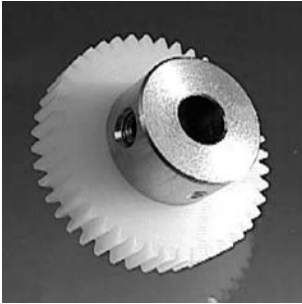
STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PFD106M-28	28†	14.00	15.00
PFD106M-30	30†	15.00	16.00
PFD106M-36	36	18.00	19.00
PFD106M-40	40	20.00	21.00
PFD106M-42	42	21.00	22.00
PFD106M-48	48	24.00	25.00
PFD106M-50	50	25.00	26.00
PFD106M-60	60	30.00	31.00
PFD106M-70	70	35.00	36.00
PFD106M-72	72	36.00	37.00
PFD106M-80	80	40.00	41.00
PFD106M-84	84	42.00	43.00
PFD106M-90	90	45.00	46.00
PFD106M-96	96	48.00	49.00
PFD106M-100	100	50.00	51.00
PFD106M-108	108	54.00	55.00
PFD106M-120	120	60.00	61.00

Available on request:
Other bore sizes, numbers of teeth;
14-12° Pressure Angle

† Teeth runout on hub.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	PIN HUB	8	5	DELTRIN	DIN 8/AGMA 9	20°



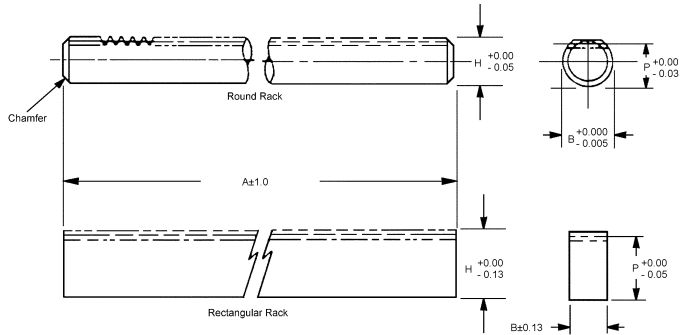
STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PFD138X-28	28	14.00	15.00
PFD138X-29	29	14.50	15.50
PFD138X-30	30	15.00	16.00
PFD138X-32	32	16.00	17.00
PFD138X-34	34	17.00	18.00
PFD138X-36	36	18.00	19.00
PFD138X-38	38	19.00	20.00
PFD138X-40	40	20.00	21.00
PFD138X-42	42	21.00	22.00
PFD138X-44	44	22.00	23.00
PFD138X-46	46	23.00	24.00
PFD138X-48	48	24.00	25.00
PFD138X-50	50	25.00	26.00
PFD138X-55	55	27.50	28.50
PFD138X-56	56	28.00	29.00
PFD138X-60	60	30.00	31.00
PFD138X-64	64	32.00	33.00
PFD138X-68	68	34.00	35.00
PFD138X-72	72	36.00	37.00
PFD138X-75	75	37.50	38.50
PFD138X-80	80	40.00	41.00
PFD138X-84	84	42.00	43.00
PFD138X-90	90	45.00	46.00
PFD138X-92	92	46.00	47.00
PFD138X-96	96	48.00	49.00
PFD138X-100	100	50.00	51.00
PFD138X-110	110	55.00	56.00
PFD138X-120	120	60.00	61.00
PFD138X-132	132	66.00	67.00
PFD138X-138	138	69.00	70.00
PFD138X-144	144	72.00	73.00
PFD138X-156	156	78.00	79.00
PFD138X-168	168	84.00	85.00
PFD138X-180	180	90.00	91.00
PFD138X-186	186	93.00	94.00

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

GEAR RACKS

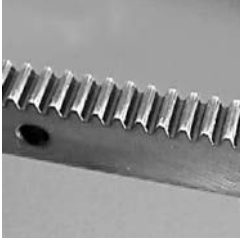
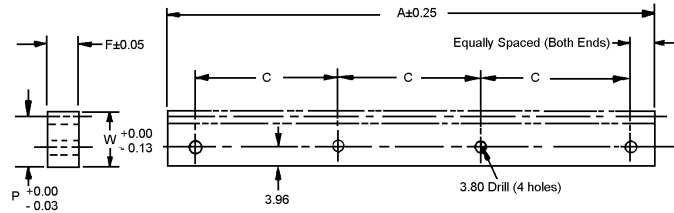
MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	ROUND & RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



STOCK NO.	RACK STYLE	MOD.	P (Ref.)	B	A	H
R2M-6	ROUND	0.5	5.09	5.974	450	5.59
R3M-6	RECTANGULAR	0.5	11.69	5.84	450	12.19

Available on request: Special, modified and custom racks.

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



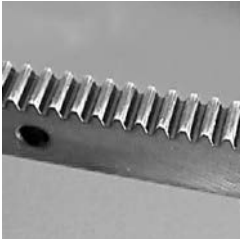
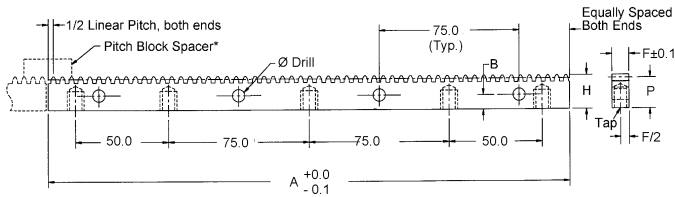
STOCK NO.	A	P (Ref.)	W	F	C
R4M-19	244.7	11.7	12.2	5.8	70.0

Quality Class AGMA12/DIN 5
available on request.

Available on request: Special, modified and custom racks.

GEAR RACKS

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



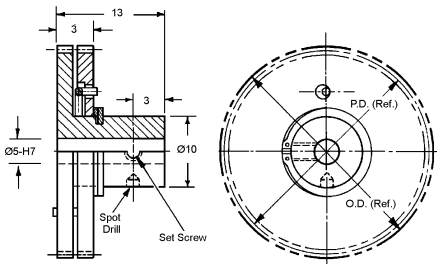
Spacer block is designed for butting to achieve continuous lengths.

RACKS		SPACER BLOCK							
STOCK NO.	STOCK NO.	LINEAR PITCH	A	P (REF.)	H +0.00 / -0.13	F	B	Ø DRILL	TAP
R1M-6	R1M-6-SB	1.57	279.6	11.56	12.07	5.8	5.5	3.8	M4.0 X 0.7

Quality Class AGMA 12/Din 5 available on request. Custom racks available on request.

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	PIN HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



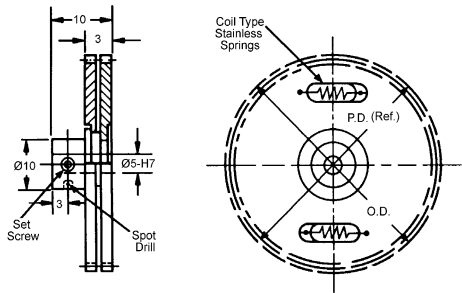
STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APFHSM-30	APFJSM-30	30	15.00	16.00
APFHSM-32	APFJSM-32	32	16.00	17.00
APFHSM-36	APFJSM-36	36	18.00	19.00
APFHSM-48	APFJSM-48	48	24.00	25.00

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	PIN HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



B

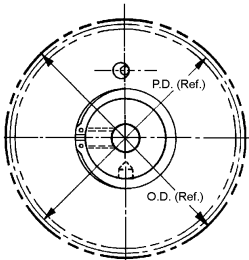
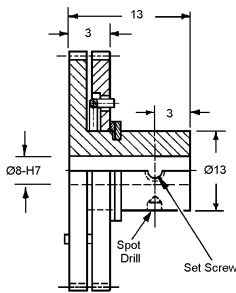
STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APFUM-65	APFVM-65	65	32.50	33.50
APFUM-70	APFVM-70	70	35.00	36.00
APFUM-72	APFVM-72	72	36.00	37.00
APFUM-75	APFVM-75	75	37.50	38.50
APFUM-80	APFVM-80	80	40.00	41.00
APFUM-84	APFVM-84	84	42.00	43.00
APFUM-85	APFVM-85	85	42.50	43.50
APFUM-90	APFVM-90	90	45.00	46.00
APFUM-95	APFVM-95	95	47.50	48.50
APFUM-96	APFVM-96	96	48.00	49.00
APFUM-100	APFVM-100	100	50.00	51.00
APFUM-106	APFVM-105	105	52.50	53.50
APFUM-110	APFVM-110	110	55.00	56.00
APFUM-115	APFVM-115	115	57.50	58.50
APFUM-120	APFVM-120	120	60.00	61.00
APFUM-125	APFVM-125	125	62.50	63.50
APFUM-130	APFVM-130	130	65.00	66.00
APFUM-132	APFVM-132	132	66.00	67.00
APFUM-140	APFVM-140	140	70.00	71.00
APFUM-144	APFVM-144	144	72.00	73.00
APFUM-150	APFVM-150	150	75.00	76.00

Available on request:
Other numbers of teeth;
Quality Class AGMA12 & 14 / DIN 5 & 3;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

ANTI-BACKLASH GEARS

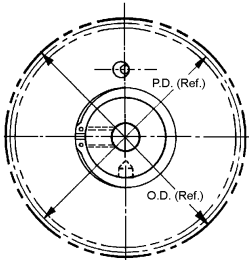
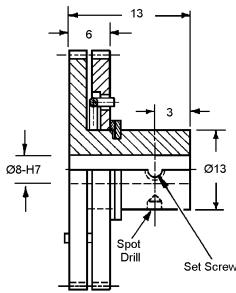
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	PIN HUB	8	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APFKSM-32-X	APFLSM-32-X	32	16.00	17.00
APFKSM-36-X	APFLSM-36-X	36	18.00	19.00
APFKSM-48-X	APFLSM-48-X	48	24.00	25.00

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	PIN HUB	8	6	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



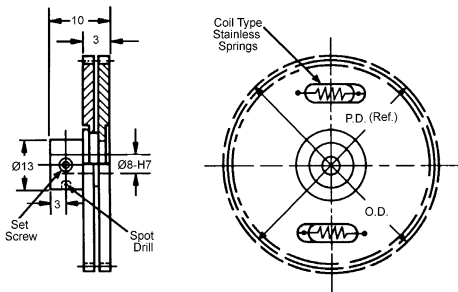
STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APFBSM-36-X	APFDMSM-36-X	36	18.00	19.00
APFBSM-42-X	APFDMSM-42-X	42	21.00	22.00
APFBSM-48-X	APFDMSM-48-X	48	24.00	25.00

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	PIN HUB	8	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



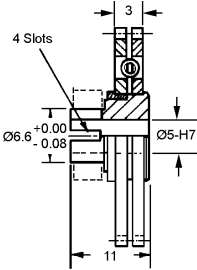
STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APFWM-65-X	APFXM-65-X	65	32.50	33.50
APFWM-70-X	APFXM-70-X	70	35.00	36.00
APFWM-72-X	APFXM-72-X	72	36.00	37.00
APFWM-75-X	APFXM-75-X	75	37.50	38.50
APFWM-80-X	APFXM-80-X	80	40.00	41.00
APFWM-84-X	APFXM-84-X	84	42.00	43.00
APFWM-85-X	APFXM-85-X	85	42.50	43.50
APFWM-90-X	APFXM-90-X	90	45.00	46.00
APFWM-95-X	APFXM-95-X	95	47.50	48.50
APFWM-96-X	APFXM-96-X	96	48.00	49.00
APFWM-100-X	APFXM-100-X	100	50.00	51.00
APFWM-105-X	APFXM-105-X	105	52.50	53.50
APFWM-110-X	APFXM-110-X	110	55.00	56.00
APFWM-115-X	APFXM-115-X	115	57.50	58.50
APFWM-120-X	APFXM-120-X	120	60.00	61.00
APFWM-125-X	APFXM-125-X	125	62.50	63.50
APFWM-130-X	APFXM-130-X	130	65.00	66.00
APFWM-132-X	APFXM-132-X	132	66.00	67.00
APFWM-140-X	APFXM-140-X	140	70.00	71.00
APFWM-144-X	APFXM-144-X	144	72.00	73.00
APFWM-150-X	APFXM-150-X	150	75.00	76.00

Available on request:
Other numbers of teeth;
Quality Class AGMA12 & 14 / DIN 5 & 3;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	CLAMP HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



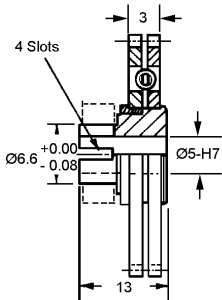
STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACFUM-65	ACFVM-65	65	32.50	33.50
ACFUM-70	ACFVM-70	70	35.00	36.00
ACFUM-72	ACFVM-72	72	36.00	37.00
ACFUM-75	ACFVM-75	75	37.50	38.50
ACFUM-80	ACFVM-80	80	40.00	41.00
ACFUM-84	ACFVM-84	84	42.00	43.00
ACFUM-85	ACFVM-85	85	42.50	43.50
ACFUM-90	ACFVM-90	90	45.00	46.00
ACFUM-95	ACFVM-95	95	47.50	48.50
ACFUM-96	ACFVM-96	96	48.00	49.00
ACFUM-100	ACFVM-100	100	50.00	51.00
ACFUM-105	ACFVM-105	105	52.50	53.50
ACFUM-110	ACFVM-110	110	55.00	56.00
ACFUM-115	ACFVM-115	115	57.50	58.50
ACFUM-120	ACFVM-120	120	60.00	61.00
ACFUM-125	ACFVM-125	125	62.50	63.50
ACFUM-130	ACFVM-130	130	65.00	66.00
ACFUM-132	ACFVM-132	132	66.00	67.00
ACFUM-140	ACFVM-140	140	70.00	71.00
ACFUM-144	ACFVM-144	144	72.00	73.00
ACFUM-150	ACFVM-150	150	75.00	76.00

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	CLAMP HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°

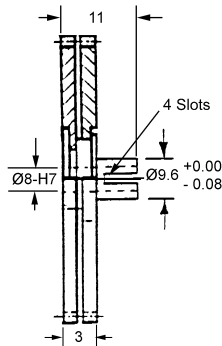


STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACFHSM-30	ACFJSM-30	30	15.00	16.00
ACFHSM-32	ACFJSM-32	32	16.00	17.00
ACFHSM-36	ACFJSM-36	36	18.00	19.00
ACFHSM-48	ACFJSM-48	48	24.00	25.00

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	CLAMP HUB	8	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



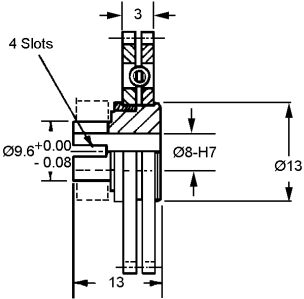
STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACFXM-65-X	ACFXM-65-X	65	32.50	33.50
ACFXM-70-X	ACFXM-70-X	70	35.00	36.00
ACFXM-72-X	ACFXM-72-X	72	36.00	37.00
ACFXM-75-X	ACFXM-75-X	75	37.50	38.50
ACFXM-80-X	ACFXM-80-X	80	40.00	41.00
ACFXM-84-X	ACFXM-84-X	84	42.00	43.00
ACFXM-85-X	ACFXM-85-X	85	42.50	43.50
ACFXM-90-X	ACFXM-90-X	90	45.00	46.00
ACFXM-95-X	ACFXM-95-X	95	47.50	48.50
ACFXM-96-X	ACFXM-96-X	96	48.00	49.00
ACFXM-100-X	ACFXM-100-X	100	50.00	51.00
ACFXM-105-X	ACFXM-105-X	105	52.50	53.50
ACFXM-110-X	ACFXM-110-X	110	55.00	56.00
ACFXM-115-X	ACFXM-115-X	115	57.50	58.50
ACFXM-120-X	ACFXM-120-X	120	60.00	61.00
ACFXM-125-X	ACFXM-125-X	125	62.50	63.50
ACFXM-130-X	ACFXM-130-X	130	65.00	66.00
ACFXM-132-X	ACFXM-132-X	132	66.00	67.00
ACFXM-140-X	ACFXM-140-X	140	70.00	71.00
ACFXM-144-X	ACFXM-144-X	144	72.00	73.00
ACFXM-150-X	ACFXM-150-X	150	75.00	76.00

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305

ANTI-BACKLASH GEARS

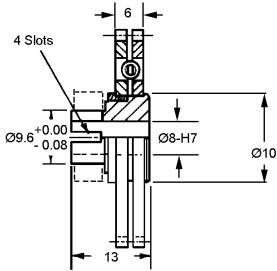
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	CLAMP HUB	8	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACFKSM-32-X	ACFLSM-32-X	32	16.00	17.00
ACFKSM-36-X	ACFLSM-36-X	36	18.00	19.00
ACFKSM-48-X	ACFLSM-48-X	48	24.00	25.00

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.5	CLAMP HUB	8	6	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



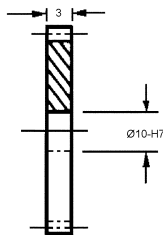
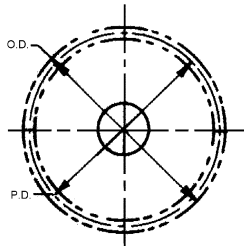
STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACFBSM-36-X	ACFD5M-36-X	36	18.00	19.00
ACFBSM-42-X	ACFD5M-42-X	42	21.00	22.00
ACFBSM-48-X	ACFD5M-48-X	48	24.00	25.00

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

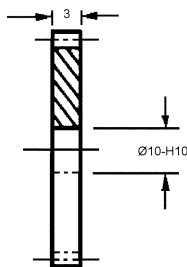
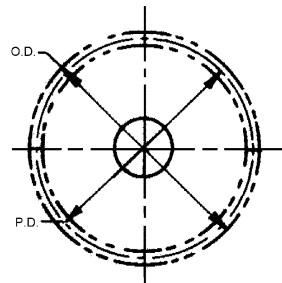
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	HUBLESS	10	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



Available on request:
Other numbers of teeth;
Quality Class AGMA 12 & 14 / DIN 5 & 3;
14 - 1/2° pressure angle.

STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FGS103-38	FGA103-38	38	15.20	16.00
FGS103-40	FGA103-40	40	16.00	16.80
FGS103-48	FGA103-48	48	19.20	20.00
FGS103-50	FGA103-50	50	20.00	20.80
FGS103-64	FGA103-64	64	25.60	26.40
FGS103-66	FGA103-66	66	26.40	27.20
FGS103-70	FGA103-70	70	28.00	28.80
FGS103-72	FGA103-72	72	28.80	29.60
FGS103-75	FGA103-75	75	30.00	30.80
FGS103-80	FGA103-80	80	32.00	32.80
FGS103-84	FGA103-84	84	33.60	34.40
FGS103-90	FGA103-90	90	36.00	36.80
FGS103-96	FGA103-96	96	38.40	39.20
FGS103-100	FGA103-100	100	40.00	40.80
FGS103-110	FGA103-110	110	44.00	44.80
FGS103-120	FGA103-120	120	48.00	48.80
FGS103-128	FGA103-128	128	51.20	52.00
FGS103-130	FGA103-130	130	52.00	52.80
FGS103-140	FGA103-140	140	56.00	56.80
FGS103-144	FGA103-144	144	57.60	58.40
FGS103-150	FGA103-150	150	60.00	60.80
FGS103-155	FGA103-155	155	62.00	62.80
FGS103-160	FGA103-160	160	64.00	64.80
FGS103-165	FGA103-165	165	66.00	66.80
FGS103-170	FGA103-170	170	68.00	68.80
FGS103-176	FGA103-176	176	70.40	71.20
FGS103-180	FGA103-180	180	72.00	72.80
FGS103-190	FGA103-190	190	76.00	76.80
FGS103-192	FGA103-192	192	76.80	77.60
FGS103-224	FGA103-224	224	89.60	90.40
FGS103-256	FGA103-256	256	102.40	103.20
FGS103-264	FGA103-264	264	105.60	106.40

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	HUBLESS	10	3	POLYURETHANE WITH LUBRICANT	DIN 9/AGMA 8	20°



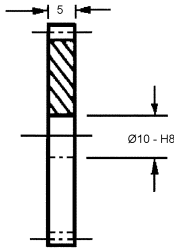
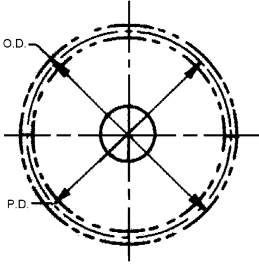
STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FGU103-64	64	25.60	26.40
FGU103-80	80	32.00	32.80
FGU103-96	96	38.40	39.20
FGU103-112	112	44.80	45.60
FGU103-128	128	51.20	52.00
FGU103-144	144	57.60	58.40

Available on request:
Other numbers of teeth;
Quality Class AGMA 12 & 14 / DIN 5 & 3;
14 - 1/2° pressure angle.

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

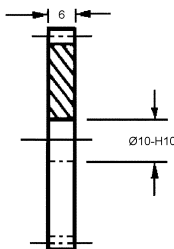
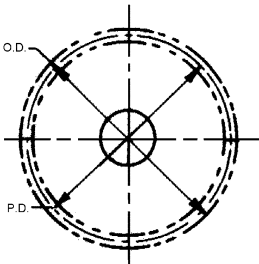
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	HUBLESS	10	5	DELTRIN	DIN 8/AGMA 9	20°



Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle.

STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FGD105-36	36	14.40	15.20
FGD105-37	37	14.80	15.60
FGD105-38	38	15.20	16.00
FGD105-40	40	16.00	16.80
FGD105-42	42	16.80	17.60
FGD105-44	44	17.60	18.40
FGD105-46	46	18.40	19.20
FGD105-48	48	19.20	20.00
FGD105-50	50	20.00	20.80
FGD105-56	56	22.40	23.20
FGD105-60	60	24.00	24.80
FGD105-64	64	25.60	26.40
FGD105-72	72	28.80	29.60
FGD105-74	74	29.60	30.40
FGD105-80	80	32.00	32.80
FGD105-84	84	33.60	34.40
FGD105-88	88	35.20	36.00
FGD105-90	90	36.00	36.80
FGD105-96	96	38.40	39.20
FGD105-100	100	40.00	40.80
FGD105-112	112	44.80	45.60
FGD105-120	120	48.00	48.80
FGD105-127	127	50.80	51.60
FGD105-128	128	51.20	52.00
FGD105-144	144	57.60	58.40
FGD105-152	152	60.80	61.60
FGD105-160	160	64.00	64.80
FGD105-168	168	67.20	68.00
FGD105-176	176	70.40	71.20
FGD105-184	184	73.60	74.40
FGD105-192	192	76.80	77.60
FGD105-224	224	89.60	90.40

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	HUBLESS	10	6	POLYURETHANE WITH LUBRICANT	DIN 9/AGMA 8	20°



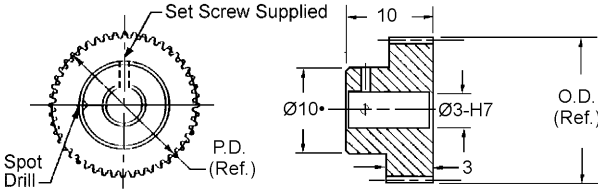
STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FGU103-160	160	64.00	64.80
FGU103-192	192	76.80	77.60
FGU103-224	224	89.60	90.40
FGU 103-256	256	102.40	103.20

Available on request:
Other numbers of teeth;
Quality Class AGMA 12 & 14 / DIN 5 & 3;
14 - 1/2° pressure angle.

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	PIN HUB	3	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



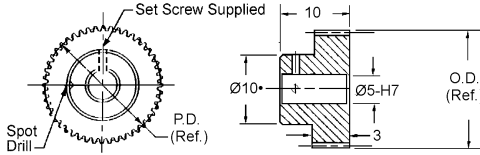
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PGS80-20	PGA80-20	20•	8.00	8.80
PGS80-21	PGA80-21	21•	8.40	9.20
PGS80-22	PGA80-22	22•	8.80	9.60
PGS80-23	PGA80-23	23•	9.20	10.00
PGS80-24	PGA80-24	24•	9.60	10.40
PGS80-25	PGA80-25	25•	10.00	10.80
PGS80-26	PGA80-26	26•	10.40	11.20
PGS80-27	PGA80-27	27•	10.80	11.60
PGS80-28	PGA80-28	28	11.20	12.00
PGS80-29	PGA80-29	29	11.60	12.40
PGS80-30	PGA80-30	30	12.00	12.80
PGS80-32	PGA80-32	32	12.80	13.60
PGS80-34	PGA80-34	34	13.60	14.40
PGS80-36	PGA80-36	36	14.40	15.20
PGS80-38	PGA80-38	38	15.20	16.00
PGS80-40	PGA80-40	40	16.00	16.80
PGS80-42	PGA80-42	42	16.80	17.60
PGS80-44	PGA80-44	44	17.60	18.40
PGS80-46	PGA80-46	46	18.40	19.20
PGS80-48	PGA80-48	48	19.20	20.00
PGS80-50	PGA80-50	50	20.00	20.80
PGS80-55	PGA80-55	55	22.00	22.80
PGS80-56	PGA80-56	56	22.40	23.20
PGS80-60	PGA80-60	60	24.00	24.80
PGS80-64	PGA80-64	64	25.60	26.40
PGS80-65	PGA80-65	65	26.00	26.80
PGS80-70	PGA80-70	70	28.00	28.80
PGS80-72	PGA80-72	72	28.80	29.60
PGS80-75	PGA80-75	75	30.00	30.80
PGS80-80	PGA80-80	80	32.00	32.80
PGS80-84	PGA80-84	84	33.60	34.40
PGS80-85	PGA80-85	85	34.00	34.80
PGS80-88	PGA80-88	88	35.20	36.00
PGS80-90	PGA80-90	90	36.00	36.80
PGS80-92	PGA80-92	92	36.80	37.60
PGS80-95	PGA80-95	95	38.00	38.80
PGS80-96	PGA80-96	96	38.40	39.20
PGS80-104	PGA80-104	104	41.60	42.40
PGS80-105	PGA80-105	105	42.00	42.80
PGS80-112	PGA80-112	112	44.80	45.60
PGS80-120	PGA80-120	120	48.00	48.80
PGS80-121	PGA80-121	121	48.40	49.20
PGS80-127	PGA80-127	127	50.80	51.60
PGS80-128	PGA80-128	128	51.20	52.00

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle;
Quality Class AGMA 12 and 14 / DIN 5 and 3
• For 17-27 teeth hub diameter equals 5.7

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	PIN HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°

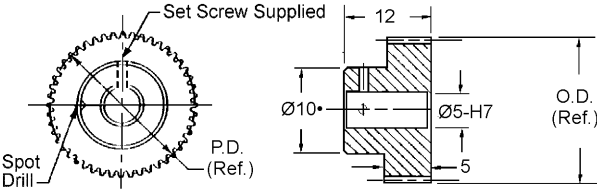


Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle;
Quality Class AGMA 12 and 14 / DIN 5 and 3
• For 23-27 teeth hub diameter equals 8.1

STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PGS82-23	PGA82-23	23•	9.20	10.00
PGS82-24	PGA82-24	24•	9.60	10.40
PGS82-25	PGA82-25	25•	10.00	10.80
PGS82-26	PGA82-26	26•	10.40	11.20
PGS82-28	PGA82-28	28	11.20	12.00
PGS82-29	PGA82-29	29	11.60	12.40
PGS82-30	PGA82-30	30	12.00	12.80
PGS82-31	PGA82-31	31	12.40	13.20
PGS82-32	PGA82-32	32	12.80	13.60
PGS82-34	PGA82-34	34	13.60	14.40
PGS82-35	PGA82-35	35	14.00	14.80
PGS82-36	PGA82-36	36	14.40	15.20
PGS82-38	PGA82-38	38	15.20	16.00
PGS82-40	PGA82-40	40	16.00	16.80
PGS82-42	PGA82-42	42	16.80	17.60
PGS82-44	PGA82-44	44	17.60	18.40
PGS82-45	PGA82-45	45	18.00	18.80
PGS82-46	PGA82-46	46	18.40	19.20
PGS82-48	PGA82-48	48	19.20	20.00
PGS82-50	PGA82-50	50	20.00	20.80
PGS82-55	PGA82-55	55	22.00	22.80
PGS82-56	PGA82-56	56	22.40	23.20
PGS82-60	PGA82-60	60	24.00	24.80
PGS82-64	PGA82-64	64	25.60	26.40
PGS82-65	PGA82-65	65	26.00	26.80
PGS82-70	PGA82-70	70	28.00	28.80
PGS82-72	PGA82-72	72	28.80	29.60
PGS82-75	PGA82-75	75	30.00	30.80
PGS82-80	PGA82-80	80	32.00	32.80
PGS82-84	PGA82-84	84	33.60	34.40
PGS82-85	PGA82-85	85	34.00	34.80
PGS82-88	PGA82-88	88	35.20	36.00
PGS82-90	PGA82-90	90	36.00	36.80
PGS82-92	PGA82-92	92	36.80	37.60
PGS82-95	PGA82-95	95	38.00	38.80
PGS82-96	PGA82-96	96	38.40	39.20
PGS82-100	PGA82-100	100	40.00	40.80
PGS82-105	PGA82-105	105	42.00	42.80
PGS82-110	PGA82-110	110	44.00	44.80
PGS82-115	PGA82-115	115	46.00	46.80
PGS82-120	PGA82-120	120	48.00	48.80
PGS82-122	PGA82-122	122	48.80	49.60
PGS82-124	PGA82-124	124	49.60	50.40
PGS82-127	PGA82-127	127	50.80	51.60
PGS82-128	PGA82-128	128	51.20	52.00
PGS82-130	PGA82-130	130	52.00	52.80
PGS82-136	PGA82-136	136	54.40	55.20
PGS82-140	PGA82-140	140	56.00	56.80
PGS82-144	PGA82-144	144	57.60	58.40
PGS82-150	PGA82-150	150	60.00	60.80
PGS82-152	PGA82-152	152	60.80	61.60
PGS82-156	PGA82-156	156	62.40	63.20
PGS82-160	PGA82-160	160	64.00	64.80
PGS82-164	PGA82-164	164	65.60	66.40
PGS82-168	PGA82-168	168	67.20	68.00
PGS82-170	PGA82-170	170	68.00	68.80
PGS82-176	PGA82-176	176	70.40	71.20
PGS82-180	PGA82-180	180	72.00	72.80
PGS82-184	PGA82-184	184	73.60	74.40
PGS82-190	PGA82-190	190	76.00	76.80
PGS82-192	PGA82-192	192	76.80	77.60
PGS82-200	PGA82-200	200	80.00	80.80
PGS82-224	PGA82-224	224	89.60	90.40
PGS82-256	PGA82-256	256	102.40	103.20

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	PIN HUB	5	5	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



B

STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PGS83-24	PGA83-24	24•	9.60	10.40
PGS83-25	PGA83-25	25•	10.00	10.80
PGS83-26	PGA83-26	26•	10.40	11.20
PGS83-28	PGA83-28	28	11.20	12.00
PGS83-30	PGA83-30	30	12.00	12.80
PGS83-32	PGA83-32	32	12.80	13.60
PGS83-36	PGA83-36	36	14.40	15.20
PGS83-40	PGA83-40	40	16.00	16.80
PGS83-44	PGA83-44	44	17.60	18.40
PGS83-46	PGA83-46	46	18.40	19.20
PGS83-48	PGA83-48	48	19.20	20.00
PGS83-50	PGA83-50	50	20.00	20.80
PGS83-56	PGA83-56	56	22.40	23.20
PGS83-60	PGA83-60	60	24.00	24.80
PGS83-64	PGA83-64	64	25.60	26.40
PGS83-70	PGA83-70	70	28.00	28.80
PGS83-75	PGA83-75	75	30.00	30.80
PGS83-80	PGA83-80	80	32.00	32.80
PGS83-88	PGA83-88	88	35.20	36.00
PGS83-90	PGA83-90	90	36.00	36.80
PGS83-96	PGA83-96	96	38.40	39.20
PGS83-100	PGA83-100	100	40.00	40.80
PGS83-110	PGA83-110	110	44.00	44.80
PGS83-112	PGA83-112	112	44.80	45.60
PGS83-120	PGA83-120	120	48.00	48.80
PGS83-128	PGA83-128	128	51.20	52.00
PGS83-136	PGA83-136	136	54.40	55.20
PGS83-144	PGA83-144	144	57.60	58.40
PGS83-152	PGA83-152	152	60.80	61.60
PGS83-160	PGA83-160	160	64.00	64.80
PGS83-176	PGA83-176	176	70.40	71.20
PGS83-192	PGA83-192	192	76.80	77.60
PGS83-200	PGA83-200	200	80.00	80.80
PGS83-208	PGA83-208	208	83.20	84.00
PGS83-224	PGA83-224	224	89.60	90.40
PGS83-240	PGA83-240	240	96.00	96.80
PGS83-256	PGA83-256	256	102.40	103.20

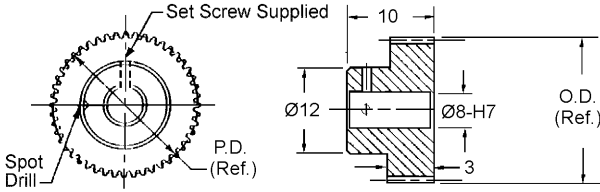
Available on request:
 Other numbers of teeth;
 14 - 1/2° pressure angle;
 Quality Class AGMA 12 and 14 / DIN 5 and 3

• For 24-27 teeth hub diameter equals 8.1

For Couplings See Section MG.
 For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	PIN HUB	8	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle;
Quality Class AGMA 12 and 14 / DIN 5 and 3

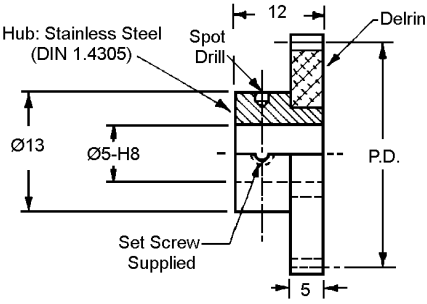
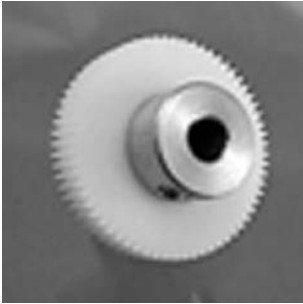
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PGS94-34	PGA94-34	34	13.60	14.40
PGS94-35	PGA94-35	35	14.00	14.80
PGS94-36	PGA94-36	36	14.40	15.20
PGS94-40	PGA94-40	40	16.00	16.80
PGS94-42	PGA94-42	42	16.80	17.60
PGS94-44	PGA94-44	44	17.60	18.40
PGS94-45	PGA94-45	45	18.00	18.80
PGS94-46	PGA94-46	46	18.40	19.20
PGS94-48	PGA94-48	48	19.20	20.00
PGS94-50	PGA94-50	50	20.00	20.80
PGS94-54	PGA94-54	54	21.60	22.40
PGS94-55	PGA94-55	55	22.00	22.80
PGS94-56	PGA94-56	56	22.40	23.20
PGS94-60	PGA94-60	60	24.00	24.80
PGS94-64	PGA94-64	64	25.60	26.40
PGS94-70	PGA94-70	70	28.00	28.80
PGS94-72	PGA94-72	72	28.80	29.60
PGS94-75	PGA94-75	75	30.00	30.80
PGS94-80	PGA94-80	80	32.00	32.80
PGS94-84	PGA94-84	84	33.60	34.40
PGS94-85	PGA94-85	85	34.00	34.80
PGS94-86	PGA94-86	86	34.40	35.20
PGS94-90	PGA94-90	90	36.00	36.80
PGS94-95	PGA94-95	95	38.00	38.80
PGS94-100	PGA94-100	100	40.00	40.80
PGS94-105	PGA94-105	105	42.00	42.80
PGS94-110	PGA94-110	110	44.00	44.80
PGS94-112	PGA94-112	112	44.80	45.60
PGS94-120	PGA94-120	120	48.00	48.80
PGS94-124	PGA94-124	124	49.60	50.40
PGS94-128	PGA94-128	128	51.20	52.00
PGS94-130	PGA94-130	130	52.00	52.80
PGS94-140	PGA94-140	140	56.00	56.80
PGS94-144	PGA94-144	144	57.60	58.40
PGS94-150	PGA94-150	150	60.00	60.80
PGS94-160	PGA94-160	160	64.00	64.80
PGS94-168	PGA94-168	168	67.20	68.00
PGS94-170	PGA94-170	170	68.00	68.80
PGS94-176	PGA94-176	176	70.40	71.20
PGS94-180	PGA94-180	180	72.00	72.80
PGS94-184	PGA94-184	184	73.60	74.40
PGS94-190	PGA94-190	190	76.00	76.80
PGS94-192	PGA94-192	192	76.80	77.60
PGS94-200	PGA94-200	200	80.00	80.80
PGS94-208	PGA94-208	208	83.20	84.00
PGS94-216	PGA94-216	216	86.40	87.20
PGS94-224	PGA94-224	224	89.60	90.40
PGS94-232	PGA94-232	232	92.80	93.60
PGS94-240	PGA94-240	240	96.00	96.80
PGS94-248	PGA94-248	248	99.20	100.00
PGS94-256	PGA94-256	256	102.40	103.20

For Couplings See Section MG.

For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	PIN HUB	5	5	DELTRIN	DIN 8/AGMA 9	20°



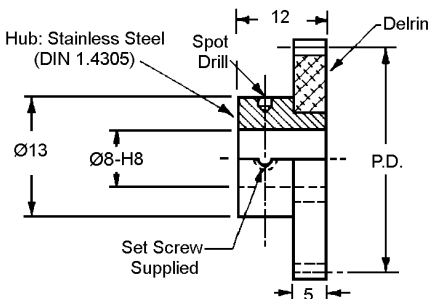
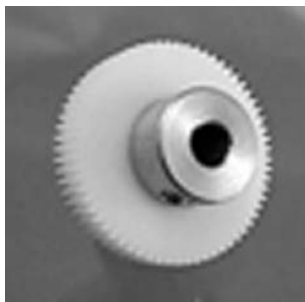
STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PGD121X-36	36	14.40	15.20
PGD121X-37	37	14.80	15.60
PGD121X-38	38	15.20	16.00
PGD121X-40	40	16.00	16.80
PGD121X-42	42	16.80	17.60
PGD121X-44	44	17.60	18.40
PGD121X-46	46	18.40	19.20
PGD121X-48	48	19.20	20.00
PGD121X-50	50	20.00	20.80
PGD121X-56	56	22.40	23.20
PGD121X-60	60	24.00	24.80
PGD121X-64	64	25.60	26.40
PGD121X-72	72	28.80	29.60
PGD121X-74	74	29.60	30.40
PGD121X-80	80	32.00	32.80
PGD121X-84	84	33.60	34.40
PGD121X-88	88	35.20	36.00
PGD121X-90	90	36.00	36.80
PGD121X-96	96	38.40	39.20
PGD121X-100	100	40.00	40.80
PGD121X-112	112	44.80	45.60
PGD121X-120	120	48.00	48.80
PGD121X-127	127	50.80	51.60
PGD121X-128	128	51.20	52.00
PGD121X-144	144	57.60	58.40
PGD121X-152	152	60.80	61.60
PGD121X-160	160	64.00	64.80
PGD121X-168	168	67.20	68.00
PGD121X-176	176	70.40	71.20
PGD121X-184	184	73.60	74.40
PGD121X-192	192	76.80	77.60
PGD121X-224	224	89.60	90.40

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	PIN HUB	8	5	DELTRIN	DIN 8/AGMA 9	20°



STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PGD138X-36	36	14.40	15.20
PGD138X-37	37	14.80	15.60
PGD138X-38	38	15.20	16.00
PGD138X-40	40	16.00	16.80
PGD138X-42	42	16.80	17.60
PGD138X-44	44	17.60	18.40
PGD138X-46	46	18.40	19.20
PGD138X-48	48	19.20	20.00
PGD138X-50	50	20.00	20.80
PGD138X-56	56	22.40	23.20
PGD138X-60	60	24.00	24.80
PGD138X-64	64	25.60	26.40
PGD138X-72	72	28.80	29.60
PGD138X-74	74	29.60	30.40
PGD138X-80	80	32.00	32.80
PGD138X-84	84	33.60	34.40
PGD138X-88	88	35.20	36.00
PGD138X-90	90	36.00	36.80
PGD138X-96	96	38.40	39.20
PGD138X-100	100	40.00	40.80
PGD138X-112	112	44.80	45.60
PGD138X-120	120	48.00	48.80
PGD138X-127	127	50.80	51.60
PGD138X-128	128	51.20	52.00
PGD138X-144	144	57.60	58.40
PGD138X-152	152	60.80	61.60
PGD138X-160	160	64.00	64.80
PGD138X-168	168	67.20	68.00
PGD138X-176	176	70.40	71.20
PGD138X-184	184	73.60	74.40
PGD138X-192	192	76.80	77.60
PGD138X-224	224	89.60	90.40

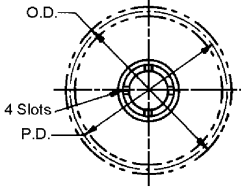
Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle

For Couplings See Section MG.

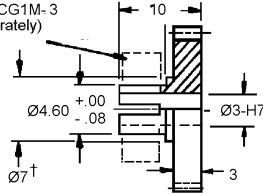
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	CLAMP HUB	3	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



Use Clamp CG1M-3
(Order Separately)



STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
CGS50-18	CGA50-18	18†	7.20	8.00
CGS50-19	CGA50-19	19†	7.60	8.40
CGS50-20	CGA50-20	20	8.00	8.80
CGS50-21	CGA50-21	21	8.40	9.20
CGS50-22	CGA50-22	22	8.80	9.60
CGS50-23	CGA50-23	23	9.20	10.00
CGS50-24	CGA50-24	24	9.60	10.40
CGS50-25	CGA50-25	25	10.00	10.80
CGS50-26	CGA50-26	26	10.40	11.20
CGS50-27	CGA50-27	27	10.80	11.60
CGS50-28	CGA50-28	28	11.20	12.00
CGS50-29	CGA50-29	29	11.60	12.40
CGS50-30	CGA50-30	30	12.00	12.80
CGS50-32	CGA50-32	32	12.80	13.60
CGS50-34	CGA50-34	34	13.60	14.40
CGS50-36	CGA50-36	36	14.40	15.20
CGS50-38	CGA50-38	38	15.20	16.00
CGS50-40	CGA50-40	40	16.00	16.80
CGS50-42	CGA50-42	42	16.80	17.60
CGS50-44	CGA50-44	44	17.60	18.40
CGS50-46	CGA50-46	46	18.40	19.40
CGS50-48	CGA50-48	48	19.20	20.00
CGS50-50	CGA50-50	50	20.00	20.80
CGS50-55	CGA50-55	55	22.00	22.80
CGS50-56	CGA50-56	56	22.40	23.20
CGS50-60	CGA50-60	60	24.00	24.80
CGS50-64	CGA50-64	64	25.60	26.40
CGS50-72	CGA50-72	72	28.80	29.60
CGS50-80	CGA50-80	80	32.00	32.80
CGS50-88	CGA50-88	88	35.20	36.00
CGS50-96	CGA50-96	96	38.40	39.20
CGS50-104	CGA50-104	104	41.60	42.40
CGS50-112	CGA50-112	112	44.80	45.60
CGS50-120	CGA50-120	120	48.00	48.00

Available on request:

Other bore sizes;
numbers of teeth;
14-12° Pressure Angle;
Quality Class DIN 5/AGMA12

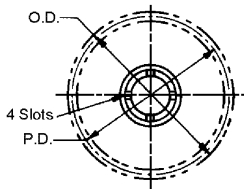
† Teeth may runout on flange diameter.

For Couplings See Section MG.

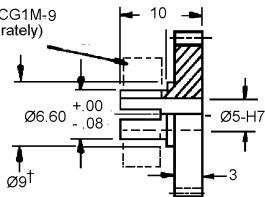
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	CLAMP HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



Use Clamp CG1M-9
(Order Separately)



STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
CGS52-24	CGA52-24	24†	9.60	10.40
CGS52-25	CGA52-25	25	10.00	10.80
CGS52-28	CGA52-28	28	11.20	12.00
CGS52-30	CGA52-30	30	12.00	12.80
CGS52-32	CGA52-32	32	12.80	13.60
CGS52-40	CGA52-40	40	16.00	16.80
CGS52-42	CGA52-42	42	16.80	17.60
CGS52-44	CGA52-44	44	17.60	18.40
CGS52-46	CGA52-46	46	18.40	19.20
CGS52-48	CGA52-48	48	19.20	20.00
CGS52-50	CGA52-50	50	20.00	20.80
CGS52-52	CGA52-52	52	20.80	21.60
CGS52-56	CGA52-56	56	22.40	23.20
CGS52-60	CGA52-60	60	24.00	24.80
CGS52-64	CGA52-64	64	25.60	26.40
CGS52-72	CGA52-72	72	28.80	29.60
CGS52-76	CGA52-76	76	30.40	31.20
CGS52-80	CGA52-80	80	32.00	32.80
CGS52-84	CGA52-84	84	33.60	34.40
CGS52-85	CGA52-85	85	34.00	34.80
CGS52-88	CGA52-88	88	35.20	36.00
CGS52-90	CGA52-90	90	36.00	36.80
CGS52-96	CGA52-96	96	38.40	39.20
CGS52-100	CGA52-100	100	40.00	40.80
CGS52-104	CGA52-104	104	41.60	42.40
CGS52-112	CGA52-112	112	44.80	45.60
CGS52-120	CGA52-120	120	48.00	48.80
CGS52-128	CGA52-128	128	51.20	52.00
CGS52-130	CGA52-130	130	52.00	52.80
CGS52-144	CGA52-144	144	57.20	58.40
CGS52-152	CGA52-152	152	60.80	61.60
CGS52-160	CGA52-160	160	64.00	64.80
CGS52-176	CGA52-176	176	70.40	71.20
CGS52-180	CGA52-180	180	72.00	72.80
CGS52-192	CGA52-192	192	76.80	77.60
CGS52-224	CGA52-224	224	89.60	90.40
CGS52-256	CGA52-256	256	102.40	103.20

Available on request:

Other bore sizes;
numbers of teeth;
14-12° Pressure Angle;
Quality Class DIN 5/AGMA12

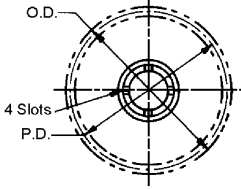
† Teeth may runout on flange diameter.

For Couplings See Section MG.

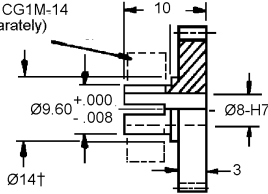
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	CLAMP HUB	8	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



Use Clamp CG1M-14
(Order Separately)



STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
CGS64-30	CGA64-30	30†	12.00	12.80
CGS64-32	CGA64-32	32†	12.80	13.60
CGS64-35	CGA64-35	35†	14.00	14.80
CGS64-36	CGA64-36	36†	14.40	15.20
CGS64-40	CGA64-40	40	16.00	16.80
CGS64-45	CGA64-45	45	18.00	18.80
CGS64-48	CGA64-48	48	19.20	20.00
CGS64-50	CGA64-50	50	20.00	28.80
CGS64-60	CGA64-60	60	24.00	24.80
CGS64-64	CGA64-64	64	25.60	26.40
CGS64-70	CGA64-70	70	28.00	28.80
CGS64-72	CGA64-72	72	28.80	26.60
CGS64-75	CGA64-75	75	30.00	30.80
CGS64-80	CGA64-80	80	32.00	32.80
CGS64-84	CGA64-84	84	33.60	34.40
CGS64-88	CGA64-88	88	35.20	36.00
CGS64-90	CGA64-90	90	36.00	36.80
CGS64-96	CGA64-96	96	38.40	39.20
CGS64-112	CGA64-112	112	44.80	45.60
CGS64-120	CGA64-120	120	48.00	48.80
CGS64-125	CGA64-125	125	50.00	50.80
CGS64-128	CGA64-128	128	51.20	52.00
CGS64-130	CGA64-130	130	52.00	52.80
CGS64-140	CGA64-140	140	56.00	56.80
CGS64-144	CGA64-144	144	57.60	58.40
CGS64-160	CGA64-160	160	64.00	64.80
CGS64-176	CGA64-176	176	70.40	71.20
CGS64-180	CGA64-180	180	72.00	72.80
CGS64-192	CGA64-192	192	76.80	77.60
CGS64-224	CGA64-224	224	89.60	90.40
CGS64-256	CGA64-256	256	102.40	103.20

Available on request:

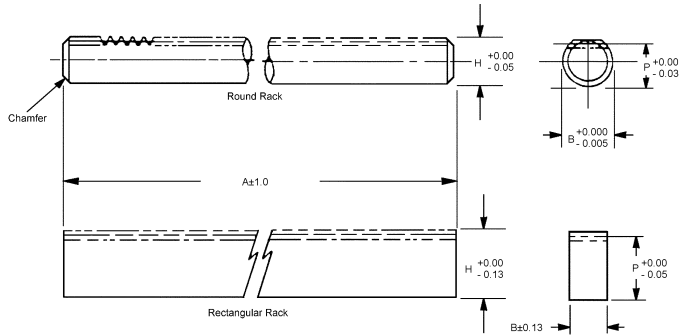
Other bore sizes;
numbers of teeth;
14-12° Pressure Angle;
Quality Class DIN 5/AGMA12

† Teeth may runout on flange diameter.

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

GEAR RACKS

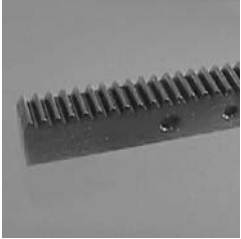
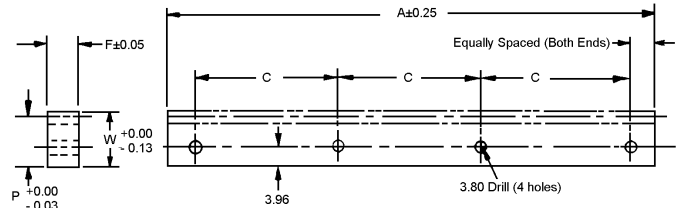
MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	ROUND & RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



STOCK NO.	RACK STYLE	MOD.	P (Ref.)	B	A	H
R2M-7	ROUND	0.4	5.19	5.974	275	5.59
R3M-7	RECTANGULAR	0.4	11.79	5.84	275	12.19

Available on request: Special, modified and custom racks.

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



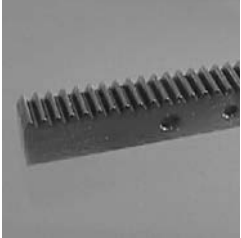
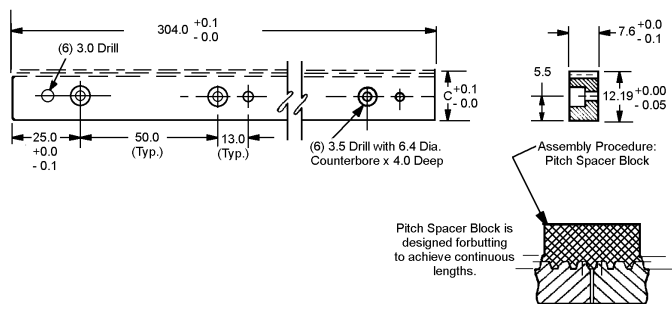
STOCK NO.	A	P (Ref.)	W	F	C
R4M-21	174.7	11.8	12.2	5.8	55.5

Quality Class AGMA12/DIN 5
available on request.

Available on request: Special, modified and custom racks.

GEAR RACKS

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



B

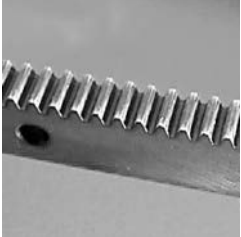
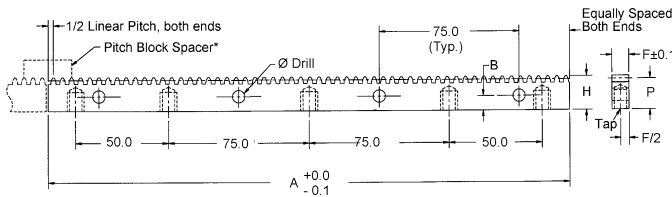
RACKS STOCK NO.	SPACER BLOCKS STOCK NO.	MODULE	LINEAR PITCH	C
R8M-2-G1	R8M-2-SB	0.4	1.26	11.79

Available on request: special, modified and custom racks.

Quality Class AGMA 12/DIN 5 available on request.

Adjacent hole center ± 0.06
Accumulative hole centers ± 0.14

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



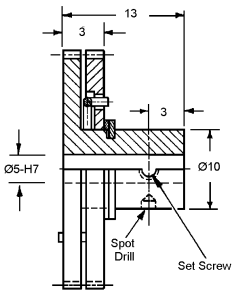
Spacer block is designed for butting to achieve continuous lengths.

RACKS	SPACER BLOCK								
STOCK NO.	STOCK NO.	LINEAR PITCH	A	P (REF.)	H +0.00/-0.13	F	B	$\varnothing$ DRILL	TAP
R1M-7	R1M-7-SB	1.26	280.2	11.66	12.07	5.8	5.5	3.8	M4.0 X 0.7

Quality Class AGMA 12/Din 5 available on request. Custom racks available on request.

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	PIN HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



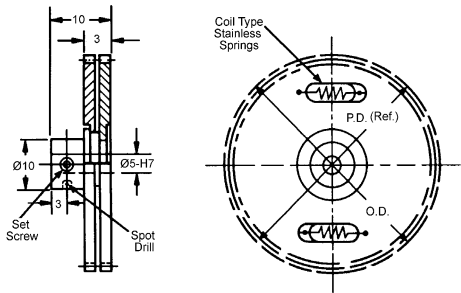
STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APGHSM-40	APGJSM-40	40	16.00	16.80
APGHSM-48	APGJSM-48	48	19.20	20.00
APGHSM-64	APGJSM-64	64	25.60	26.40

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	PIN HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APGUM-85	APGVM-85	85	34.00	34.80
APGUM-90	APGVM-90	90	36.00	36.80
APGUM-95	APGVM-95	95	38.00	38.80
APGUM-96	APGVM-96	96	38.40	39.20
APGUM-100	APGVM-100	100	40.00	40.80
APGUM-105	APGVM-105	105	42.00	42.80
APGUM-108	APGVM-108	108	43.20	44.00
APGUM-110	APGVM-110	110	44.00	44.80
APGUM-115	APGVM-115	115	46.00	46.80
APGUM-120	APGVM-120	120	48.00	48.80
APGUM-125	APGVM-125	125	50.00	50.80
APGUM-128	APGVM-128	128	51.20	52.00
APGUM-130	APGVM-130	130	52.00	52.80
APGUM-140	APGVM-140	140	56.00	56.80
APGUM-150	APGVM-150	150	60.00	60.80
APGUM-160	APGVM-160	160	64.00	64.80
APGUM-170	APGVM-170	170	68.00	68.80
APGUM-176	APGVM-176	176	70.40	71.20
APGUM-180	APGVM-180	180	72.00	72.80
APGUM-190	APGVM-190	190	76.00	76.80
APGUM-192	APGVM-192	192	76.80	77.60
APGUM-200	APGVM-200	200	80.00	80.80

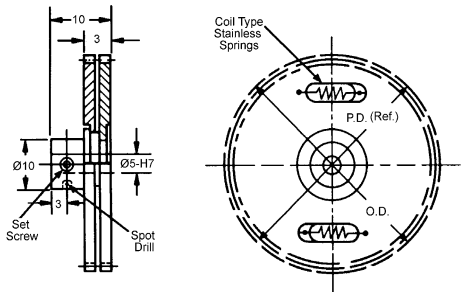
Available on request:
Other numbers of teeth;
Quality Class AGMA12 & 14 / DIN 5 & 3;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	PIN HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APGUM-85	APGVM-85	85	34.00	34.80
APGUM-90	APGVM-90	90	36.00	36.80
APGUM-95	APGVM-95	95	38.00	38.80
APGUM-96	APGVM-96	96	38.40	39.20
APGUM-100	APGVM-100	100	40.00	40.80
APGUM-105	APGVM-105	105	42.00	42.80
APGUM-108	APGVM-108	108	43.20	44.00
APGUM-110	APGVM-110	110	44.00	44.80
APGUM-115	APGVM-115	115	46.00	46.80
APGUM-120	APGVM-120	120	48.00	48.80
APGUM-125	APGVM-125	125	50.00	50.80
APGUM-128	APGVM-128	128	51.20	52.00
APGUM-130	APGVM-130	130	52.00	52.80
APGUM-140	APGVM-140	140	56.00	56.80
APGUM-150	APGVM-150	150	60.00	60.80
APGUM-160	APGVM-160	160	64.00	64.80
APGUM-170	APGVM-170	170	68.00	68.80
APGUM-176	APGVM-176	176	70.40	71.20
APGUM-180	APGVM-180	180	72.00	72.80
APGUM-190	APGVM-190	190	76.00	76.80
APGUM-192	APGVM-192	192	76.80	77.60
APGUM-200	APGVM-200	200	80.00	80.80

Available on request:
Other numbers of teeth;
Quality Class AGMA12 & 14 / DIN 5 & 3;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

B

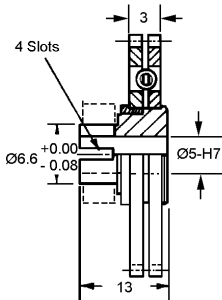
Available on request:
Other numbers of teeth;
Quality Class AGMA12 & 14 / DIN 5 & 3;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

The left drawing is a side view of the bearing assembly. It shows a shaft with a diameter of $\varnothing 13$ and a hole with a diameter of $\varnothing 8\text{H}7$. The bearing is mounted on the shaft. Dimensions include a total length of 10, a distance of 3 from the end to the bearing, and a distance of 3 from the bearing to the end. A set screw is shown on the shaft, and a spot drill is indicated on the bearing. The right drawing is an end view of the bearing. It shows the inner diameter (P.D. (Ref.)) and the outer diameter (O.D.). The bearing is labeled "Coil Type Stainless Springs".

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ANTI-BACKLASH GEARS

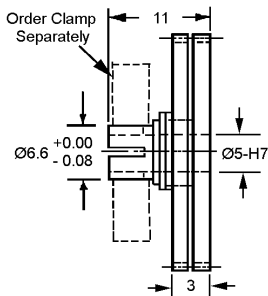
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	CLAMP HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACGHSM-40	ACGJSM-40	40	16.00	16.80
ACGHSM-48	ACGJSM-48	48	19.20	20.00
ACGHSM-64	ACGJSM-64	64	25.60	26.40

Available on request;
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	CLAMP HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



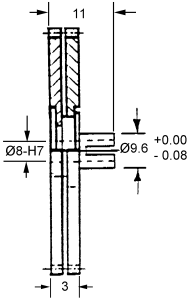
STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACGUM-85	ACGVM-85	85	34.00	34.80
ACGUM-90	ACGVM-90	90	36.00	36.80
ACGUM-95	ACGVM-95	95	38.00	38.80
ACGUM-96	ACGVM-96	96	38.40	39.20
ACGUM-100	ACGVM-100	100	40.00	40.80
ACGUM-105	ACGVM-105	105	42.00	42.80
ACGUM-108	ACGVM-108	108	43.20	44.00
ACGUM-110	ACGVM-110	110	44.00	44.80
ACGUM-115	ACGVM-115	115	46.00	46.80
ACGUM-120	ACGVM-120	120	48.00	48.80
ACGUM-125	ACGVM-125	125	50.00	50.80
ACGUM-128	ACGVM-128	128	51.20	52.00
ACGUM-130	ACGVM-130	130	52.00	52.80
ACGUM-140	ACGVM-140	140	56.00	56.80
ACGUM-150	ACGVM-150	150	60.00	60.80
ACGUM-160	ACGVM-160	160	64.00	64.80
ACGUM-170	ACGVM-170	170	68.00	68.80
ACGUM-176	ACGVM-176	176	70.40	71.20
ACGUM-180	ACGVM-180	180	72.00	72.80
ACGUM-190	ACGVM-190	190	76.00	76.80
ACGUM-192	ACGVM-192	192	76.80	77.60
ACGUM-200	ACGVM-200	200	80.00	80.80

Available on request;
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	CLAMP HUB	8	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°

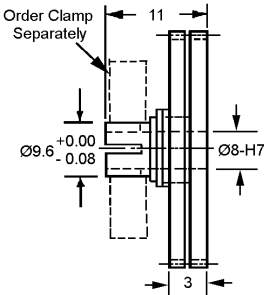


STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACGKSM-48-X	ACGJSM-48	48	19.20	20.00
ACGKSM-64 -X	ACGJSM-64	64	25.60	26.40

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.4	CLAMP HUB	8	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACGWM-85-X	ACGXM-85-X	85	34.00	34.80
ACGWM-90-X	ACGXM-90-X	90	36.00	36.80
ACGWM-95-X	ACGXM-95-X	95	38.00	38.80
ACGWM-96-X	ACGXM-96-X	96	38.40	39.20
ACGWM-100-X	ACGXM-100-X	100	40.00	40.80
ACGWM-105-X	ACGXM-105-X	105	42.00	42.80
ACGWM-108-X	ACGXM-108-X	108	43.20	44.00
ACGWM-110-X	ACGXM-110-X	110	44.00	44.80
ACGWM-115-X	ACGXM-115-X	115	46.00	46.80
ACGWM-120-X	ACGXM-120-X	120	48.00	48.80
ACGWM-125-X	ACGXM-125-X	125	50.00	50.80
ACGWM-128-X	ACGXM-128-X	128	51.20	52.00
ACGWM-130-X	ACGXM-130-X	130	52.00	52.80
ACGWM-140-X	ACGXM-140-X	140	56.00	56.80
ACGWM-150-X	ACGXM-150-X	150	60.00	60.80
ACGWM-160-X	ACGXM-160-X	160	64.00	64.80
ACGWM-170-X	ACGXM-170-X	170	68.00	68.80
ACGWM-176-X	ACGXM-176-X	176	70.40	71.20
ACGWM-180-X	ACGXM-180-X	180	72.00	72.80
ACGWM-190-X	ACGXM-190-X	190	76.00	76.80
ACGWM-192-X	ACGXM-192-X	192	76.80	77.60
ACGWM-200-X	ACGXM-200-X	200	80.00	80.80

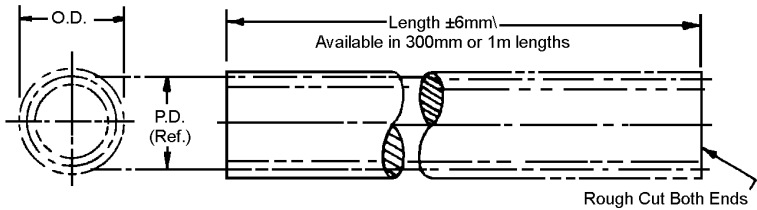
Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305



SPUR GEAR STOCKS

MODULE	STYLE	MATERIAL	PRESSURE ANGLE
0.4	PINION WIRE	BRASS ALLOY	20°

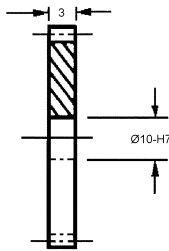
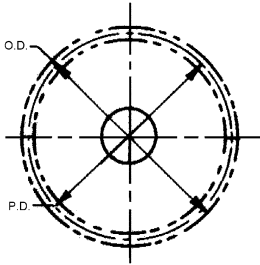


1 METER. LONG STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PWPGB-13	13	5.20	6.00
PWPGB-16	16	6.40	7.20
PWPGB-18	18	7.20	8.00

Available on request:
Other numbers of teeth;
14-1/2° Pressure Angle

SPUR GEARS

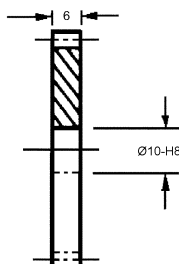
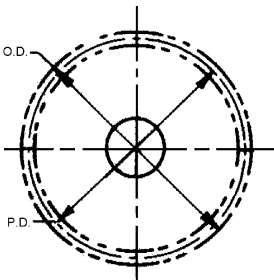
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.3	HUBLESS	10	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FHS103-72	FHA103-72	72	21.60	22.20
FHS103-80	FHA103-80	80	24.00	24.60
FHS103-81	FHA103-81	81	24.30	24.90
FHS103-90	FHA103-90	90	27.00	27.60
FHS103-96	FHA103-96	96	28.80	29.40
FHS103-99	FHA103-99	99	29.70	30.30
FHS103-100	FHA103-100	100	30.00	30.60
FHS103-108	FHA103-108	108	32.40	33.00
FHS103-115	FHA103-115	115	34.50	35.10
FHS103-130	FHA103-130	130	39.00	39.60
FHS103-135	FHA103-135	135	40.50	41.10
FHS103-140	FHA103-140	140	42.00	42.60
FHS103-144	FHA103-144	144	43.20	43.80
FHS103-150	FHA103-150	150	45.00	45.60
FHS103-160	FHA103-160	160	48.00	48.60
FHS103-180	FHA103-180	180	54.00	54.60
FHS103-192	FHA103-192	192	57.60	58.20
FHS103-200	FHA103-200	200	60.00	60.60
FHS103-216	FHA103-216	216	64.80	65.40
FHS103-288	FHA103-288	288	86.40	87.00

Available on request:
Other numbers of teeth;
Quality Class AGMA 12 & 14 / DIN 5 & 3;
14 - 1/2° pressure angle.

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.3	HUBLESS	10	6	POLYURETHANE	DIN 7/AGMA 8	20°

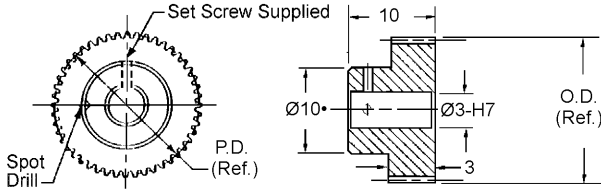


STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FHU103-72	72	21.60	22.20
FHU103-96	96	28.80	29.40
FHU103-100	100	30.00	30.60
FHU103-108	108	32.40	33.00
FHU103-120	120	36.00	36.60
FHU103-125	125	37.50	38.10
FHU103-135	135	40.50	41.10
FHU103-140	140	32.00	42.60
FHU103-150	150	45.00	45.60

Available on request:
Other numbers of teeth;
Quality Class AGMA 12 & 14 / DIN 5 & 3;
14 - 1/2° pressure angle.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.3	PIN HUB	3	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



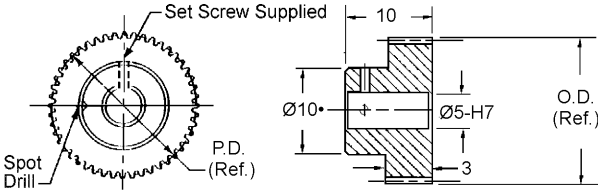
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PHS80-26	PHA80-26	26•	7.80	8.40
PHS80-27	PHA80-27	27•	8.10	8.70
PHS80-28	PHA80-28	28•	8.40	9.00
PHS80-29	PHA80-29	29•	8.70	9.30
PHS80-30	PHA80-30	30•	9.00	9.60
PHS80-32	PHA80-32	32•	9.60	10.20
PHS80-34	PHA80-34	34•	10.20	10.80
PHS80-36	PHA80-36	36•	10.80	11.40
PHS80-38	PHA80-38	38	11.40	12.00
PHS80-40	PHA80-40	40	12.00	12.60
PHS80-42	PHA80-42	42	12.60	13.20
PHS80-44	PHA80-44	44	13.20	13.80
PHS80-45	PHA80-45	45	13.50	14.10
PHS80-46	PHA80-46	46	13.80	14.40
PHS80-48	PHA80-48	48	14.40	15.00
PHS80-50	PHA80-50	50	15.00	15.60
PHS80-54	PHA80-54	54	16.20	16.80
PHS80-56	PHA80-56	56	16.80	17.40
PHS80-60	PHA80-60	60	18.00	18.60
PHS80-64	PHA80-64	64	19.20	19.80
PHS80-70	PHA80-70	70	21.00	21.60
PHS80-72	PHA80-72	72	21.60	22.20
PHS80-75	PHA80-75	75	22.50	23.10
PHS80-80	PHA80-80	80	24.00	24.60
PHS80-84	PHA80-84	84	25.20	25.80
PHS80-85	PHA80-85	85	25.50	26.10
PHS80-90	PHA80-90	90	27.00	27.60
PHS80-92	PHA80-92	92	27.60	28.20
PHS80-96	PHA80-96	96	28.80	29.40
PHS80-100	PHA80-100	100	30.00	30.60
PHS80-110	PHA80-110	110	33.00	33.60
PHS80-117	PHA80-117	117	35.10	35.70
PHS80-120	PHA80-120	120	36.00	36.60
PHS80-130	PHA80-130	130	39.00	39.60
PHS80-144	PHA80-144	144	43.20	43.80

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle;
Quality Class AGMA 12 and 14 / DIN 5 and 3
• For 26-36 teeth hub diameter equals 5.4

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.3	PIN HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



B

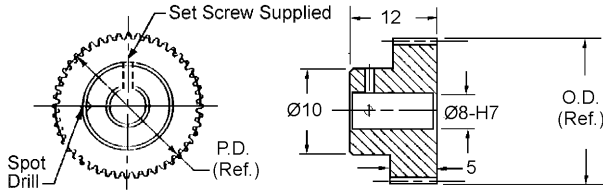
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PHS82-30	PHA82-30	30•	9.00	9.60
PHS82-32	PHA82-32	32•	9.60	10.20
PHS82-36	PHA82-36	36•	10.80	11.40
PHS82-38	PHA82-38	38	11.40	12.00
PHS82-40	PHA82-40	40	12.00	12.60
PHS82-42	PHA82-42	42	12.60	13.20
PHS82-44	PHA82-44	44	13.20	13.80
PHS82-45	PHA82-45	45	13.50	14.10
PHS82-46	PHA82-46	46	13.80	14.40
PHS82-48	PHA82-48	48	14.40	15.00
PHS82-50	PHA82-50	50	15.00	15.60
PHS82-54	PHA82-54	54	16.20	16.80
PHS82-55	PHA82-55	55	16.50	17.10
PHS82-56	PHA82-56	56	16.80	17.40
PHS82-60	PHA82-60	60	18.00	18.60
PHS82-64	PHA82-64	64	19.20	19.80
PHS82-70	PHA82-70	70	21.00	21.60
PHS82-72	PHA82-72	72	21.60	22.20
PHS82-75	PHA82-75	75	22.50	23.10
PHS82-80	PHA82-80	80	24.00	24.60
PHS82-81	PHA82-81	81	24.30	24.90
PHS82-90	PHA82-90	90	27.00	27.60
PHS82-96	PHA82-96	96	28.80	29.40
PHS82-99	PHA82-99	99	29.70	30.30
PHS82-100	PHA82-100	100	30.00	30.60
PHS82-108	PHA82-108	108	32.40	33.00
PHS82-110	PHA82-110	110	33.00	33.60
PHS82-120	PHA82-120	120	36.00	36.60
PHS82-126	PHA82-126	126	37.80	38.40
PHS82-130	PHA82-130	130	39.00	39.60
PHS82-140	PHA82-140	140	42.00	42.60
PHS82-144	PHA82-144	144	43.20	43.80
PHS82-150	PHA82-150	150	45.00	45.60
PHS82-153	PHA82-153	153	45.90	46.50
PHS82-162	PHA82-162	162	48.60	49.20
PHS82-168	PHA82-168	168	50.40	51.00
PHS82-170	PHA82-170	170	51.00	51.60
PHS82-180	PHA82-180	180	54.00	54.60
PHS82-198	PHA82-198	198	59.40	60.00
PHS82-200	PHA82-200	200	60.00	60.60
PHS82-216	PHA82-216	216	64.80	65.40

Available on request:
 Other numbers of teeth;
 14 - 1/2° pressure angle;
 Quality Class AGMA 12 and 14 / DIN 5 and 3
 • For 30-36 teeth hub diameter equals 8.1

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.3	PIN HUB	8	5	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



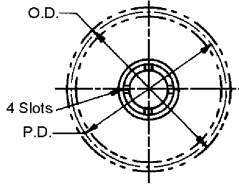
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PHS95-44	PHA95-44	44	13.20	13.80
PHS95-45	PHA95-45	45	13.50	14.10
PHS95-46	PHA95-46	46	13.80	14.40
PHS95-48	PHA95-48	48	14.40	15.00
PHS95-50	PHA95-50	50	15.00	15.60
PHS95-54	PHA95-54	54	16.20	16.80
PHS95-55	PHA95-55	55	16.50	17.10
PHS95-60	PHA95-60	60	18.00	18.60
PHS95-63	PHA95-63	63	18.90	19.50
PHS95-64	PHA95-64	64	19.20	19.80
PHS95-65	PHA95-65	65	19.50	20.10
PHS95-70	PHA95-70	70	21.00	21.60
PHS95-72	PHA95-72	72	21.60	22.20
PHS95-80	PHA95-80	80	24.00	24.60
PHS95-90	PHA95-90	90	27.00	27.60
PHS95-96	PHA95-96	96	28.80	29.40
PHS95-100	PHA95-100	100	30.00	30.60
PHS95-105	PHA95-105	105	31.50	32.10
PHS95-110	PHA95-110	110	33.00	33.60
PHS95-120	PHA95-120	120	36.00	36.60
PHS95-126	PHA95-126	126	37.80	38.40
PHS95-130	PHA95-130	130	39.00	39.60
PHS95-136	PHA95-136	136	40.80	41.40
PHS95-140	PHA95-140	140	42.00	42.60
PHS95-150	PHA95-150	150	45.00	45.60
PHS95-160	PHA95-160	160	48.00	48.60
PHS95-170	PHA95-170	170	51.00	51.60
PHS95-180	PHA95-180	180	54.00	54.60

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle;
Quality Class AGMA 12 and 14 / DIN 5 and 3

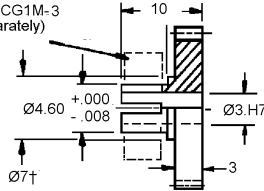
For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.3	CLAMP HUB	3	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



Use Clamp CG1M-3
(Order Separately)



STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
CHS50-22	CHA50-22	22†	6.60	7.20
CHS50-23	CHA50-23	23†	6.90	7.50
CHS50-25	CHA50-25	25†	7.50	8.10
CHS50-26	CHA50-26	26	7.80	8.40
CHS50-27	CHA50-27	27	8.10	8.70
CHS50-28	CHA50-28	28	8.40	9.00
CHS50-30	CHA50-30	30	9.00	9.60
CHS50-32	CHA50-32	32	9.60	10.20
CHS50-34	CHA50-34	34	10.20	10.80
CHS50-36	CHA50-36	36	10.80	11.40
CHS50-38	CHA50-38	38	11.40	12.00
CHS50-40	CHA50-40	40	12.00	12.60
CHS50-42	CHA50-42	42	12.60	13.20
CHS50-50	CHA50-50	50	15.00	15.60
CHS50-56	CHA50-56	56	16.80	17.40
CHS50-60	CHA50-60	60	18.00	18.60
CHS50-64	CHA50-64	64	19.20	19.80
CHS50-70	CHA50-70	70	21.00	21.60
CHS50-72	CHA50-72	72	21.60	22.20
CHS50-75	CHA50-75	75	22.50	23.10
CHS50-80	CHA50-80	80	24.00	24.60
CHS50-81	CHA50-81	81	24.30	24.90
CHS50-85	CHA50-85	85	25.50	26.10
CHS50-90	CHA50-90	90	27.00	27.80
CHS50-96	CHA50-96	96	28.80	29.40

Available on request:

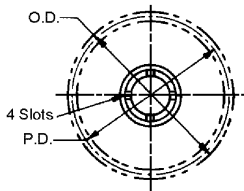
Other bore sizes;
numbers of teeth;
14-12° Pressure Angle;
Quality Class DIN 5/AGMA12

† Teeth may runout on flange diameter.

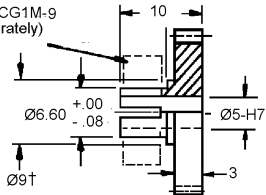
For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.3	CLAMP HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



Use Clamp CG1M-9
(Order Separately)

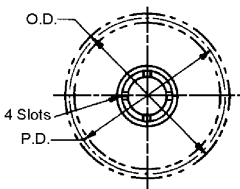


STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
CHS52-30	CHA52-30	30†	9.00	9.60
CHS52-36	CHA52-36	36	10.80	11.40
CHS52-72	CHA52-72	72	21.60	22.20
CHS52-100	CHA52-100	100	30.00	30.60
CHS52-126	CHA52-126	126	37.80	38.40
CHS52-160	CHA52-160	160	48.00	48.60
CHS52-180	CHA52-180	180	54.00	54.60
CHS52-216	CHA52-216	216	64.80	65.40
CHS52-288	CHA52-288	288	86.40	87.00

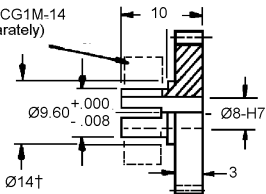
Available on request:
Other bore sizes;
numbers of teeth;
14-12° Pressure Angle;
Quality Class DIN 5/AGMA12

† Teeth may runout on flange diameter.

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.3	CLAMP HUB	8	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



Use Clamp CG1M-14
(Order Separately)



STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
CHS64-45	CHA64-45	45†	13.50	14.10
CHS64-63	CHA64-63	63	18.90	19.50
CHS64-72	CHA64-72	72	21.60	22.20
CHS64-90	CHA64-90	90	27.70	27.60
CHS64-99	CHA64-99	99	29.70	30.30
CHS64-108	CHA64-108	108	32.40	33.00
CHS64-126	CHA64-126	126	37.80	38.40
CHS64-144	CHA64-144	144	43.20	43.80
CHS64-180	CHA64-180	180	54.00	54.60
CHS64-216	CHA64-216	216	64.80	65.40
CHS64-288	CHA64-288	288	86.40	87.00

Available on request:
Other bore sizes;
numbers of teeth;
14-12° Pressure Angle;
Quality Class DIN 5/AGMA12

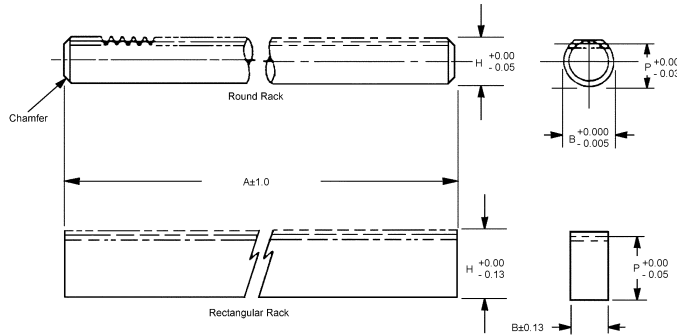
† Teeth may runout on flange diameter.

For Couplings See Section MG.

For Shafts, Bearings and Collars See Section MI.

GEAR RACKS

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.3	ROUND & RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°

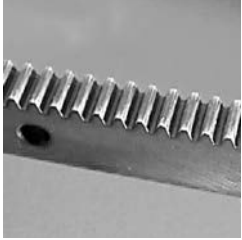
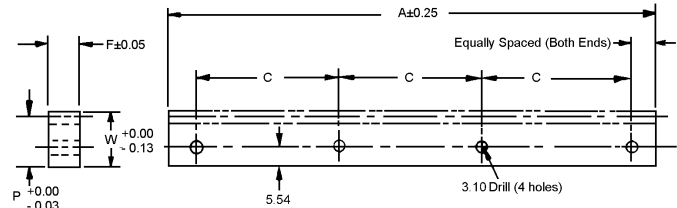


B

STOCK NO.	RACK STYLE	MOD.	P (Ref.)	B	A	H
R2M-8	ROUND	0.3	3.66	4.755	275	3.96
R3M-8	RECTANGULAR	0.3	8.72	4.24	275	9.02

Available on request: Special, modified and custom racks.

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.3	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



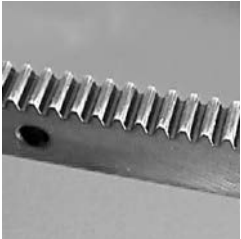
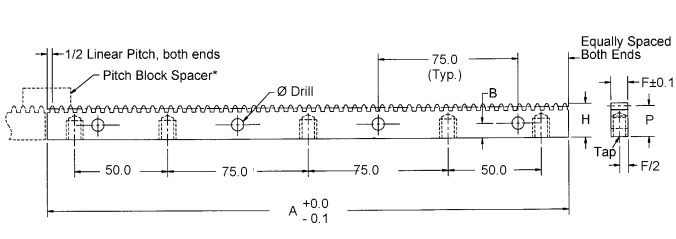
STOCK NO.	A	P (Ref.)	W	F	C
R4M-23	124.4	8.7	9.0	4.2	35.0

Quality Class AGMA12/DIN 5
available on request.

Available on request: Special, modified and custom racks.

GEAR RACKS

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.3	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



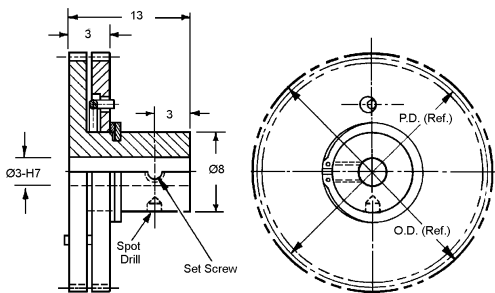
Spacer block is designed for butting to achieve continuous lengths.

RACKS	SPACER BLOCK								
STOCK NO.	STOCK NO.	LINEAR PITCH	A	P (REF.)	H $+0.00$ -0.13	F	B	Ø DRILL	TAP
R1M-8	R1M-8-SB	0.94	280.9	8.59	8.89	4.2	4.0	3.1	M3.0 X 0.5

Quality Class AGMA 12/Din 5 available on request. Custom racks available on request.

B

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.3	PIN HUB	3	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°

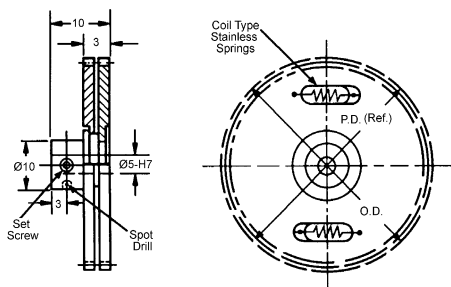


STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APHFSM-44	APHGSM-44	44	13.20	13.80
APHFSM-56	APHGSM-56	56	16.80	17.40
APHFSM-72	APHGSM-72	72	21.60	22.20

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.3	PIN HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APHUM-130	APHVM-130	130	39.00	39.60
APHUM-135	APHVM-135	135	40.50	41.10
APHUM-140	APHVM-140	140	42.00	42.60
APHUM-144	APHVM-144	144	43.20	43.80
APHUM-145	APHVM-145	145	43.50	44.10
APHUM-150	APHVM-150	150	45.00	45.60
APHUM-160	APHVM-160	160	48.00	48.60
APHUM-170	APHVM-170	170	51.00	51.60
APHUM-180	APHVM-180	180	54.00	54.60
APHUM-190	APHVM-190	190	57.00	57.60
APHUM-192	APHVM-192	192	57.60	58.20
APHUM-200	APHVM-200	200	60.00	60.60
APHUM-210	APHVM-210	210	63.00	63.60
APHUM-220	APHVM-220	220	66.00	66.60
APHUM-230	APHVM-230	230	69.00	69.60
APHUM-240	APHVM-240	240	72.00	72.60
ACHUM-250	ACHVM-250	250	75.00	75.60

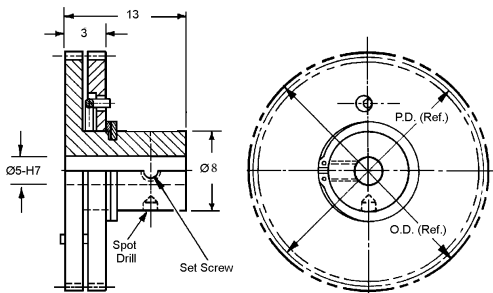
Available on request:
Other numbers of teeth;
Quality Class AGMA 12 & 14 / DIN 5 & 3;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305



ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.3	PIN HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°

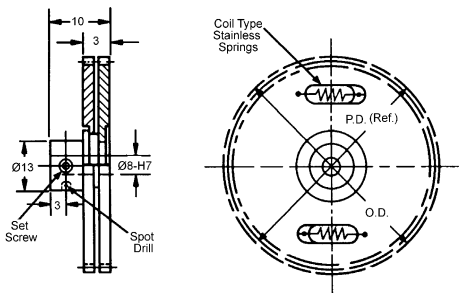


STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APHHSM-44	APHJSM-44	44	13.20	13.80
APHHSM-56	APHJSM-56	56	16.80	17.40
APHHSM-72	APHJSM-72	72	21.60	22.20

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.3	PIN HUB	8	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APHWM-130-X	APHXM-130-X	130	39.00	39.60
APHWM-135-X	APHXM-135-X	135	40.50	41.10
APHWM-140-X	APHXM-140-X	140	42.00	42.60
APHWM-144-X	APHXM-144-X	144	43.20	43.80
APHWM-145-X	APHXM-145-X	145	43.50	44.10
APHWM-150-X	APHXM-150-X	150	45.00	45.60
APHWM-160-X	APHXM-160-X	160	48.00	48.60
APHWM-170-X	APHXM-170-X	170	51.00	51.60
APHWM-180-X	APHXM-180-X	180	54.00	54.60
APHWM-190-X	APHXM-190-X	190	57.00	57.60
APHWM-192-X	APHXM-192-X	192	57.60	58.20
APHWM-200-X	APHXM-200-X	200	60.00	60.60
APHWM-210-X	APHXM-210-X	210	63.00	63.60
APHWM-220-X	APHXM-220-X	220	66.00	66.60
APHWM-230-X	APHXM-230-X	230	69.00	69.60
APHWM-240-X	APHXM-240-X	240	72.00	72.60
APHWM-250-X	APHXM-250-X	250	75.00	75.60

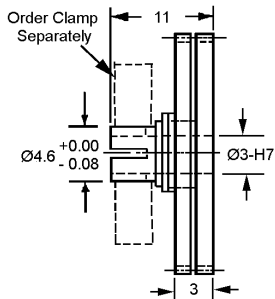
Available on request:
Other numbers of teeth;
Quality Class AGMA 12 & 14 / DIN 5 & 3;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305



B

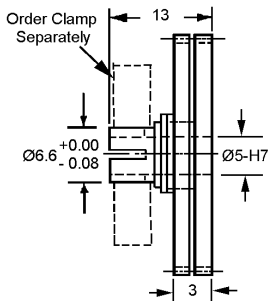
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.3	CLAMP HUB	3	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACHFSM-44	ACHGSM-44	44	13.20	13.80
ACHFSM-56	ACHGSM-56	56	16.80	17.40
ACHFSM-72	ACHGSM-72	72	21.60	22.20

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

Module	Style	Bore	Face	Material	Quality	Pressure Angle
0.3	CLAMP HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°

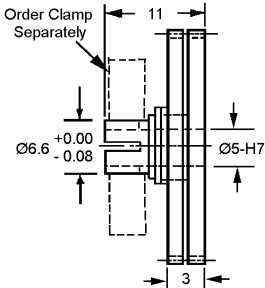


STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACHHSM-44	ACHJSM-56	44	13.20	13.80
ACHHSM-56	ACHJSM-56	56	16.80	17.40
ACHHSM-72	ACHJSM-72	72	21.60	22.20

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.3	CLAMP HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°

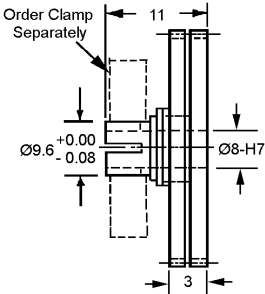


STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACHUM-130	ACHVM-130	130	39.00	39.60
ACHUM-135	ACHVM-135	135	40.50	41.10
ACHUM-140	ACHVM-140	140	42.00	42.60
ACHUM-144	ACHVM-144	144	43.20	43.80
ACHUM-145	ACHVM-145	145	43.50	44.10
ACHUM-150	ACHVM-150	150	45.00	45.60
ACHUM-160	ACHVM-160	160	48.00	48.60
ACHUM-170	ACHVM-170	170	51.00	51.60
ACHUM-180	ACHVM-180	180	54.00	54.60
ACHUM-190	ACHVM-190	190	57.00	57.60
ACHUM-192	ACHVM-192	192	57.60	58.20
ACHUM-200	ACHVM-200	200	60.00	60.60
ACHUM-210	ACHVM-210	210	63.00	63.60
ACHUM-220	ACHVM-220	220	66.00	66.60
ACHUM-230	ACHVM-230	230	69.00	69.60
ACHUM-240	ACHVM-240	240	72.00	72.60
ACHUM-250	ACHVM-250	250	75.00	75.60

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.3	CLAMP HUB	8	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACHWM-130-X	ACHXM-130-X	130	39.00	39.60
ACHWM-135-X	ACHXM-135-X	135	40.50	41.10
ACHWM-140-X	ACHXM-140-X	140	42.00	42.60
ACHWM-144-X	ACHXM-144-X	144	43.20	43.80
ACHWM-145-X	ACHXM-145-X	145	43.50	44.10
ACHWM-150-X	ACHXM-150-X	150	45.00	45.60
ACHWM-160-X	ACHXM-160-X	160	48.00	48.60
ACHWM-170-X	ACHXM-170-X	170	51.00	51.60
ACHWM-180-X	ACHXM-180-X	180	54.00	54.60
ACHWM-190-X	ACHXM-190-X	190	57.00	57.60
ACHWM-192-X	ACHXM-192-X	192	57.60	58.20
ACHWM-200-X	ACHXM-200-X	200	60.00	60.60
ACHWM-210-X	ACHXM-210-X	210	63.00	63.60
ACHWM-220-X	ACHXM-220-X	220	66.00	66.60
ACHWM-230-X	ACHXM-230-X	230	69.00	69.60
ACHWM-240-X	ACHXM-240-X	240	72.00	72.60
ACHWM-250-X	ACHXM-250-X	250	75.00	75.60

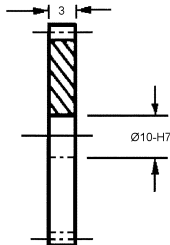
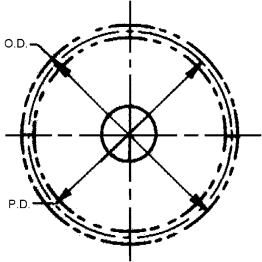
Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305



SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.25	HUBLESS	10	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



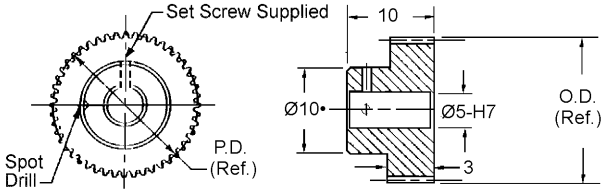
STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
FJS103-96	FJA103-96	96	24.00	24.50
FJS103-100	FJA103-100	100	25.00	25.50
FJS103-105	FJA103-105	105	26.25	26.75
FJS103-108	FJA103-108	108	27.00	27.50
FJS103-110	FJA103-110	110	27.50	28.00
FJS103-120	FJA103-120	120	30.00	30.50
FJS103-125	FJA103-125	125	31.25	31.75
FJS103-132	FJA103-132	132	33.00	33.50
FJS103-140	FJA103-140	140	35.00	35.50
FJS103-144	FJA103-144	144	36.00	36.50
FJS103-150	FJA103-150	150	37.50	38.00
FJS103-160	FJA103-160	160	40.00	40.50
FJS103-180	FJA103-180	180	45.00	45.50
FJS103-190	FJA103-190	190	47.50	48.00
FJS103-192	FJA103-192	192	48.00	48.50

Available on request:
Other numbers of teeth;
Quality Class AGMA 12 & 14 / DIN 5 & 3;
14 - 1/2° pressure angle

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.25	PIN HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



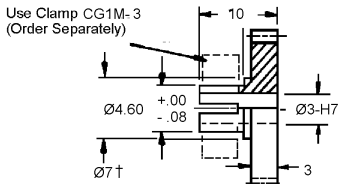
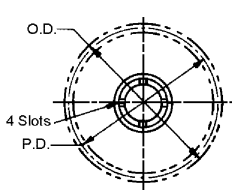
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
PJS82-35	PJA82-35	35•	8.75	9.25
PJS82-36	PJA82-36	36•	9.00	9.50
PJS82-38	PJA82-38	38•	9.50	10.00
PJS82-40	PJA82-40	40•	10.00	10.50
PJS82-42	PJA82-42	42•	10.50	11.00
PJS82-44	PJA82-44	44	11.00	11.50
PJS82-45	PJA82-45	45	11.25	11.75
PJS82-48	PJA82-48	48	12.00	12.50
PJS82-50	PJA82-50	50	12.50	13.00
PJS82-52	PJA82-52	52	13.00	13.50
PJS82-54	PJA82-54	54	13.50	14.50
PJS82-60	PJA82-60	60	15.00	15.50
PJS82-64	PJA82-64	64	16.00	16.50
PJS82-66	PJA82-66	66	16.50	17.00
PJS82-70	PJA82-70	70	17.50	18.00
PJS82-72	PJA82-72	72	18.00	18.50
PJS82-75	PJA82-75	75	18.75	19.25
PJS82-77	PJA82-77	77	19.25	19.75
PJS82-80	PJA82-80	80	20.00	20.50
PJS82-85	PJA82-85	85	21.25	21.75
PJS82-90	PJA82-90	90	22.50	23.00
PJS82-95	PJA82-95	95	23.75	24.25
PJS82-96	PJA82-96	96	24.00	24.50
PJS82-100	PJA82-100	100	25.00	25.50
PJS82-105	PJA82-105	105	26.25	26.75
PJS82-110	PJA82-110	110	27.50	28.00
PJS82-120	PJA82-120	120	30.00	30.50
PJS82-130	PJA82-130	130	32.50	33.00
PJS82-140	PJA82-140	140	35.00	35.50
PJS82-160	PJA82-160	160	40.00	40.50
PJS82-180	PJA82-180	180	45.00	45.50
PJS82-192	PJA82-192	192	48.00	48.50

Available on request:
Other numbers of teeth;
14 - 1/2° pressure angle;
Quality Class AGMA 12 and 14 / DIN 5 and 3
• For 35-42 teeth hub diameter equals 8.0

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

SPUR GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.25	CLAMP HUB	3	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
CJS50-26	CJA50-26	26†	6.50	7.00
CJS50-28	CJA50-28	28†	7.00	7.50
CJS50-30	CJA50-30	30	7.50	8.00
CJS50-32	CJA50-32	32	8.00	8.50
CJS50-33	CJA50-33	33	8.25	8.75
CJS50-34	CJA50-34	34	8.50	9.00
CJS50-35	CJA50-35	35	8.75	9.25
CJS50-36	CJA50-36	36	9.00	9.50
CJS50-38	CJA50-38	38	9.50	10.00
CJS50-40	CJA50-40	40	10.00	10.50
CJS50-42	CJA50-42	42	10.50	11.00
CJS50-44	CJA50-44	44	11.00	11.50
CJS50-48	CJA50-48	48	12.00	12.50
CJS50-50	CJA50-50	50	12.50	13.00
CJS50-52	CJA50-52	52	13.00	13.50
CJS50-54	CJA50-54	54	13.50	14.00
CJS50-56	CJA50-56	56	14.00	14.50
CJS50-58	CJA50-58	58	14.50	15.00
CJS50-60	CJA50-60	60	15.00	15.50
CJS50-64	CJA50-64	64	16.00	16.50
CJS50-70	CJA50-70	70	17.50	18.00
CJS50-72	CJA50-72	72	18.00	18.50
CJS50-76	CJA50-76	76	19.00	19.50
CJS50-78	CJA50-78	78	19.50	20.00
CJS50-80	CJA50-80	80	20.00	20.50
CJS50-84	CJA50-84	84	21.00	21.50
CJS50-90	CJA50-90	90	22.50	23.00
CJS50-95	CJA50-95	95	23.75	24.25
CJS50-96	CJA50-96	96	24.00	24.50
CJS50-100	CJA50-100	100	25.00	25.50
CJS50-105	CJA50-105	105	26.25	26.75
CJS50-108	CJA50-108	108	27.00	27.50
CJS50-110	CJA50-110	110	27.50	28.00
CJS50-115	CJA50-115	115	28.75	29.25
CJS50-120	CJA50-120	120	30.00	30.50
CJS50-127	CJA50-127	127	31.75	32.25
CJS50-132	CJA50-132	132	33.00	33.50
CJS50-144	CJA50-144	144	36.00	36.50
CJS50-168	CJA50-168	168	42.00	42.50
CJS50-180	CJA50-180	180	45.00	45.50

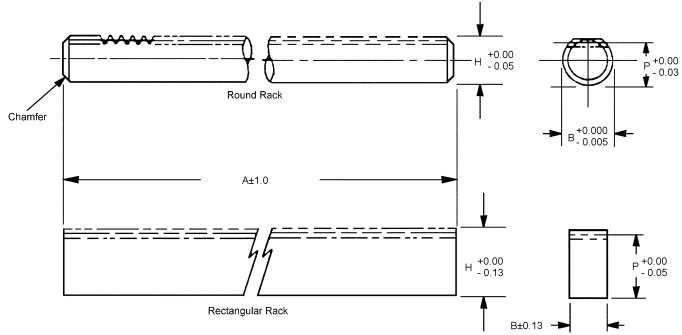
Available on request:
Other bore sizes;
numbers of teeth;
14-12° Pressure Angle;
Quality Class DIN 5/AGMA12

†Teeth may runout on flange diameter.

For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

GEAR RACKS

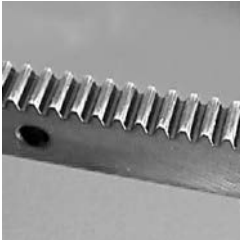
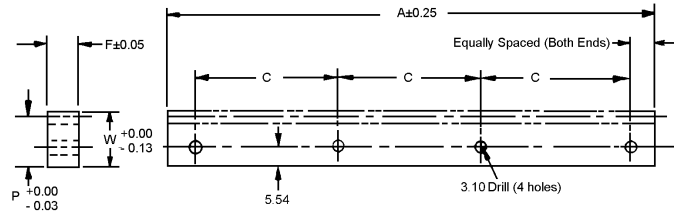
MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.25	ROUND & RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



STOCK NO.	RACK STYLE	MOD.	P (Ref.)	B	A	H
R2M-9	ROUND	0.25	3.71	4.755	275	3.96
R3M-9	RECTANGULAR	0.25	8.77	4.24	275	9.02

Available on request: Special, modified and custom racks.

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.25	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



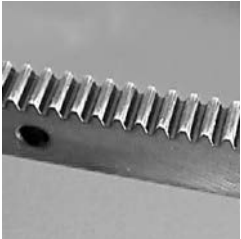
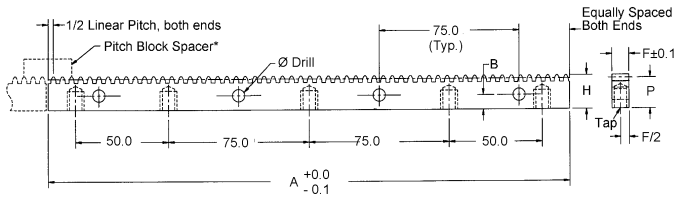
STOCK NO.	A	P (Ref.)	W	F	C
R4M-25	74.6	8.8	9.0	4.2	20.0

Quality Class AGMA12/DIN 5
available on request.

Available on request: Special, modified and custom racks.

GEAR RACKS

MODULE	STYLE	MATERIAL	QUALITY	PRESSURE ANGLE
0.25	RECTANGULAR	STAINLESS STEEL DIN 1.4005	DIN 7/AGMA 10	20°



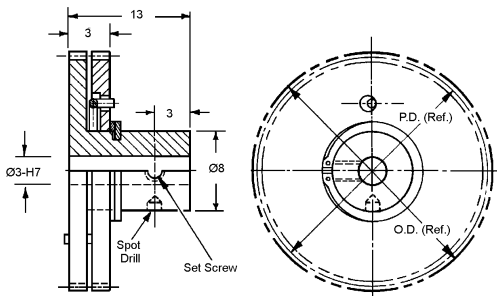
Spacer block is designed for butting to achieve continuous lengths.

RACKS		SPACER BLOCK							
STOCK NO.	STOCK NO.	LINEAR PITCH	A	P (REF.)	H +0.00 / -0.13	F	B	Ø DRILL	TAP
R1M-9	R1M-9-SB	0.78	279.6	8.64	8.89	4.2	4.0	3.1	M3.0 X 0.5

Quality Class AGMA 12/Din 5 available on request. Custom racks available on request.

ANTI-BACKLASH GEARS

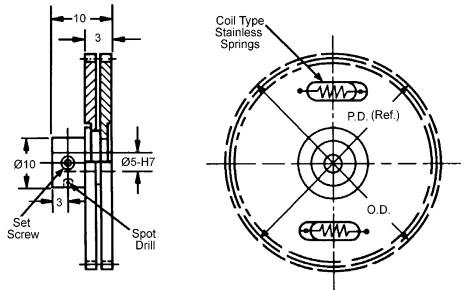
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.25	PIN HUB	3	3	STAINLESS STEE DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APJFSM-60	APJGSM-60	60	15.00	15.50
APJFSM-72	APJGSM-72	72	18.00	18.50
APJFSM-96	APJGSM-96	96	24.00	24.50

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.25	PIN HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APJUM-100	APJVM-100	100	25.00	25.50
APJUM-105	APJVM-105	105	26.25	26.75
APJUM-108	APJVM-108	108	27.00	27.50
APJUM-110	APJVM-110	110	27.50	28.00
APJUM-115	APJVM-115	115	28.75	29.25
APJUM-120	APJVM-120	120	30.00	30.50
APJUM-125	APJVM-125	125	31.25	31.75
APJUM-130	APJVM-130	130	32.50	33.00
APJUM-140	APJVM-140	140	35.00	35.50
APJUM-144	APJVM-144	144	36.00	36.50
APJUM-150	APJVM-150	150	37.50	38.00
APJUM-160	APJVM-160	160	40.00	40.50
APJUM-170	APJVM-170	170	42.50	43.00
APJUM-180	APJVM-180	180	45.00	45.50
APJUM-190	APJVM-190	190	47.50	48.00
APJUM-200	APJVM-200	200	50.00	50.50
APJUM-210	APJVM-210	210	52.50	53.00
APJUM-216	APJVM-216	216	54.00	54.50
APJUM-220	APJVM-220	220	55.00	55.50
APJUM-225	APJVM-225	225	56.25	56.75
APJUM-230	APJVM-230	230	57.50	58.00
APJUM-240	APJVM-240	240	60.00	60.50
APJUM-250	APJVM-250	250	62.50	63.00
APJUM-260	APJVM-260	260	65.00	65.50
APJUM-270	APJVM-270	270	67.50	68.00
APJUM-275	APJVM-275	275	68.75	69.25
APJUM-280	APJVM-280	280	70.00	70.50
APJUM-285	APJVM-285	285	71.25	71.75
APJUM-290	APJVM-290	290	72.50	73.00
APJUM-300	APJVM-300	300	75.00	75.50

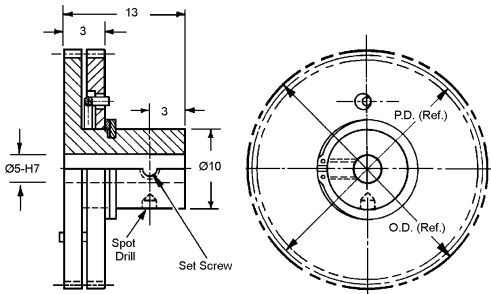


Available on request:
Other numbers of teeth;
Quality Class AGMA12 & 14 / DIN 5 & 3;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.25	PIN HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°

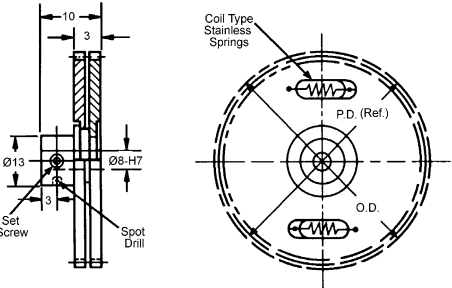


B

STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APJHSM-60	APJJSM-60	60	15.00	15.50
APJHSM-72	APJJSM-72	72	18.00	18.50
APJHSM-96	APJJSM-96	96	24.00	24.50

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle
Hub Material: Stainless Steel DIN 1.4305

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.25	PIN HUB	8	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



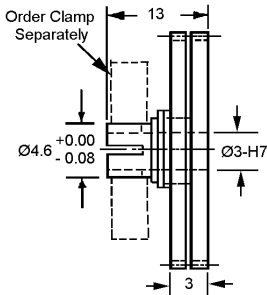
Available on request:
Other numbers of teeth;
Quality Class AGMA12 & 14 / DIN 5 & 3;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305

STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
APJWM-100-X	APJXM-100-X	100	25.00	25.50
APJWM-105-X	APJXM-105-X	105	26.25	26.75
APJWM-108-X	APJXM-108-X	108	27.00	27.50
APJWM-110-X	APJXM-110-X	110	27.50	28.00
APJWM-115-X	APJXM-115-X	115	28.75	29.25
APJWM-120-X	APJXM-120-X	120	30.00	30.50
APJWM-125-X	APJXM-125-X	125	31.25	31.75
APJWM-130-X	APJXM-130-X	130	32.50	33.00
APJWM-140-X	APJXM-140-X	140	35.00	35.50
APJWM-144-X	APJXM-144-X	144	36.00	36.50
APJWM-150-X	APJXM-150-X	150	37.50	38.00
APJWM-160-X	APJXM-160-X	160	40.00	40.50
APJWM-170-X	APJXM-170-X	170	42.50	43.00
APJWM-180-X	APJXM-180-X	180	45.00	45.50
APJWM-190-X	APJXM-190-X	190	47.50	48.00
APJWM-200-X	APJXM-200-X	200	50.00	50.50
APJWM-210-X	APJXM-210-X	210	52.50	53.00
APJWM-216-X	APJXM-216-X	216	54.00	54.50
APJWM-220-X	APJXM-220-X	220	55.00	55.50
APJWM-225-X	APJXM-225-X	225	56.25	56.70
APJWM-230-X	APJXM-230-X	230	57.50	58.00
APJWM-240-X	APJXM-240-X	240	60.00	60.50
APJWM-250-X	APJXM-250-X	250	62.50	63.00
APJWM-260-X	APJXM-260-X	260	65.00	65.50
APJWM-270-X	APJXM-270-X	270	67.50	68.00
APJWM-275-X	APJXM-275-X	275	68.75	69.25
APJWM-280-X	APJXM-280-X	280	70.00	70.50
APJWM-285-X	APJXM-285-X	285	71.25	71.75
APJWM-290-X	APJXM-290-X	290	72.50	73.00
APJWM-300-X	APJXM-300-X	300	75.00	75.50

ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.25	CLAMP HUB	3	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°

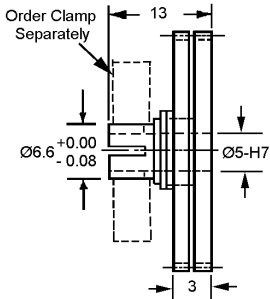


STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACJFSM-60	ACJGSM-60	60	15.00	15.50
ACJFSM-72	ACJGSM-72	72	18.00	18.50
ACJFSM-96	ACJGSM-96	96	24.00	24.50

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle

Hub Material: Stainless Steel DIN 1.4305

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.25	CLAMP HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACJHSM-60	ACJISM-60	60	15.00	15.50
ACJHSM-72	ACJISM-72	72	18.00	18.50
ACJHSM-96	ACJISM-96	96	24.00	24.50

Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle

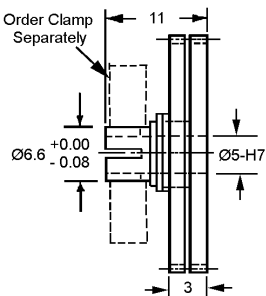
Hub Material: Stainless Steel DIN 1.4305

For Couplings See Section MG.

For Shafts, Bearings and Collars See Section MI.

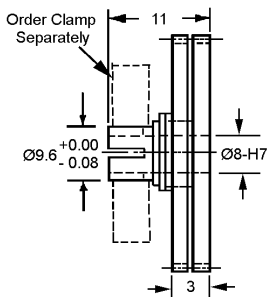
ANTI-BACKLASH GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.25	CLAMP HUB	5	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACJUM-100	ACJVM-100	100	25.00	25.50
ACJUM-105	ACJVM-105	105	26.25	26.75
ACJUM-108	ACJVM-108	108	27.00	27.50
ACJUM-110	ACJVM-110	110	27.50	28.00
ACJUM-115	ACJVM-115	115	28.75	29.25
ACJUM-120	ACJVM-120	120	30.00	30.50
ACJUM-125	ACJVM-125	125	31.25	31.75
ACJUM-130	ACJVM-130	130	32.50	33.00
ACJUM-140	ACJVM-140	140	35.00	35.50
ACJUM-144	ACJVM-144	144	36.00	36.50
ACJUM-150	ACJVM-150	150	37.50	38.00
ACJUM-160	ACJVM-160	160	40.00	40.50
ACJUM-170	ACJVM-170	170	42.50	43.00
ACJUM-180	ACJVM-180	180	45.00	45.50
ACJUM-190	ACJVM-190	190	47.50	48.00
ACJUM-200	ACJVM-200	200	50.00	50.50
ACJUM-210	ACJVM-210	210	52.50	53.00
ACJUM-216	ACJVM-216	216	54.00	54.50
ACJUM-220	ACJVM-220	220	55.00	55.50
ACJUM-225	ACJVM-225	225	56.25	56.75
ACJUM-230	ACJVM-230	230	57.50	58.00
ACJUM-240	ACJVM-240	240	60.00	60.50
ACJUM-250	ACJVM-250	250	62.50	63.00
ACJUM-260	ACJVM-260	260	65.00	65.50
ACJUM-270	ACJVM-270	270	67.50	68.00
ACJUM-275	ACJVM-275	275	68.75	69.25
ACJUM-280	ACJVM-280	280	70.00	70.50
ACJUM-285	ACJVM-285	265	71.25	71.75
ACJUM-290	ACJVM-290	290	72.50	73.00
ACJUM-300	ACJVM-300	300	75.00	75.50

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	PRESSURE ANGLE
0.25	CLAMP HUB	8	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1355 ANODIZED	DIN 7/AGMA 10	20°



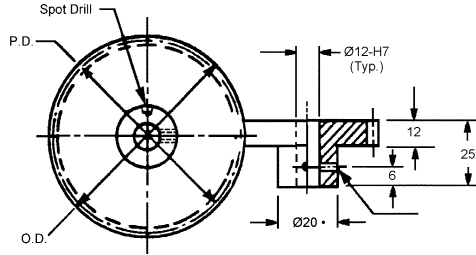
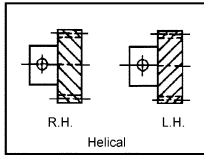
STAINLESS STEEL DIN 1.4305 STOCK NO.	ALUMINUM DIN 3.1355 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
ACJWM-100-X	ACJXM-100-X	100	25.00	25.50
ACJWM-105-X	ACJXM-105-X	105	26.25	26.75
ACJWM-108-X	ACJXM-108-X	108	27.00	27.50
ACJWM-110-X	ACJXM-110-X	110	27.50	28.00
ACJWM-115-X	ACJXM-115-X	115	28.75	29.25
ACJWM-120-X	ACJXM-120-X	120	30.00	30.50
ACJWM-125-X	ACJXM-125-X	125	31.25	31.75
ACJWM-130-X	ACJXM-130-X	130	32.50	33.00
ACJWM-140-X	ACJXM-140-X	140	35.00	35.50
ACJWM-144-X	ACJXM-144-X	144	36.00	36.50
ACJWM-150-X	ACJXM-150-X	150	37.50	38.00
ACJWM-160-X	ACJXM-160-X	160	40.00	40.50
ACJWM-170-X	ACJXM-170-X	170	42.50	43.00
ACJWM-180-X	ACJXM-180-X	180	45.00	45.50
ACJWM-190-X	ACJXM-190-X	190	47.50	48.00
ACJWM-200-X	ACJXM-200-X	200	50.00	50.50
ACJWM-210-X	ACJXM-210-X	210	52.50	53.00
ACJWM-216-X	ACJXM-216-X	216	54.00	54.50
ACJWM-220-X	ACJXM-220-X	220	55.00	55.50
ACJWM-225-X	ACJXM-225-X	225	56.25	56.75
ACJWM-230-X	ACJXM-230-X	230	57.50	58.00
ACJWM-240-X	ACJXM-240-X	240	60.00	60.50
ACJWM-250-X	ACJXM-250-X	250	62.50	63.00
ACJWM-260-X	ACJXM-260-X	260	65.00	65.50
ACJWM-270-X	ACJXM-270-X	270	67.50	68.00
ACJWM-275-X	ACJXM-275-X	275	68.75	69.25
ACJWM-280-X	ACJXM-280-X	280	70.00	70.50
ACJWM-285-X	ACJXM-285-X	285	71.25	71.75
ACJWM-290-X	ACJXM-290-X	290	72.50	73.00
ACJWM-300-X	ACJXM-300-X	300	75.00	75.50



Available on request:
Other numbers of teeth;
Other Quality Classes;
14-1/2° Pressure Angle
Hub Material: Stainless
Steel DIN 1.4305

HELICAL GEARS

MODULE	STYLE	BORE	MATERIAL	QUALITY	PRES. ANGLE	HELIX ANGLE
1.5	R & L Hand PIN HUB	12	STAINLESS STEEL DIN 1.4305	DIN 8 AGMA 9	20°	45°



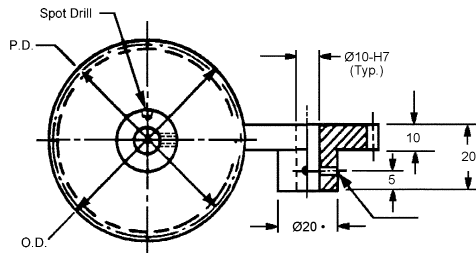
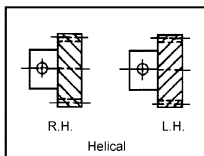
RIGHT HAND STOCK NO.	LEFT HAND STOCK NO.	NO. OF TEETH	P.D.	O.D.
HAS89-R12	HAS89-L12	12	25.46	28.46
HAS89-R16	HAS89-L16	16	33.94	36.94
HAS89-R20	HAS89-L20	20	42.43	45.43
HAS89-R24	HAS89-L24	24	50.91	53.91
HAS89-R32	HAS89-L32	32	67.88	70.88
HAS89-R40	HAS89-L40	40	84.85	87.85
HAS89-R48	HAS89-L48	48	101.82	104.82

Other numbers of teeth are available on request.

- For 11 teeth hub diameter equals 19.6



MODULE	STYLE	BORE	MATERIAL	QUALITY	PRES. ANGLE	HELIX ANGLE
1.25	R & L Hand PIN HUB	10	STAINLESS STEEL DIN 1.4305	DIN 8 AGMA 9	20°	45°



RIGHT HAND STOCK NO.	LEFT HAND STOCK NO.	NO. OF TEETH	P.D.	O.D.
HBS86-R11	HBS86-L11	11	19.44	21.94
HBS86-R15	HBS86-L15	15	26.52	29.02
HBS86-R20	HBS86-L20	20	35.36	37.86
HBS86-R25	HBS86-L25	25	44.19	46.69
HBS86-R30	HBS86-L30	30	53.03	55.53
HBS86-R40	HBS86-L40	40	70.71	73.21
HBS86-R50	HBS86-L50	50	88.39	90.89
HBS86-R60	HBS86-L60	60	106.07	108.57

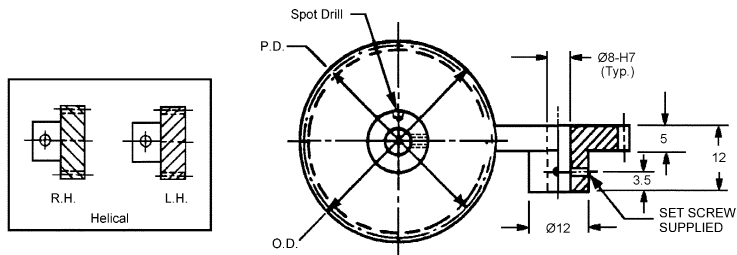
Other numbers of teeth are available on request.

- For 11 - 13 teeth hub diameter equals 16.3



HELICAL GEARS

MODULE	STYLE	BORE	MATERIAL	QUALITY	PRES. ANGLE	HELIX ANGLE
1.0	R & L Hand PIN HUB	8	STAINLESS STEEL DIN 1.4305	DIN 7 AGMA 10	20°	45°

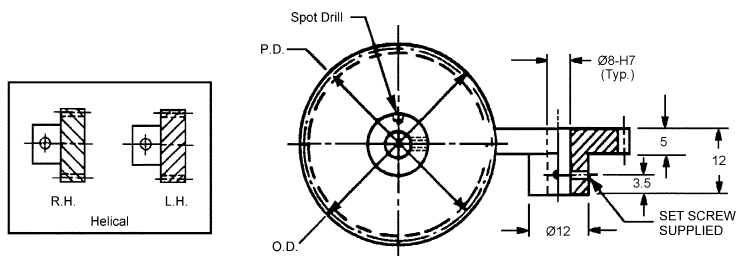


RIGHT HAND STOCK NO.	LEFT HAND STOCK NO.	NO. OF TEETH	P.D.	O.D.
HCS95-R12	HCS95-L12	12	16.94	18.97
HCS95-R18	HCS95-L18	18	25.45	27.45
HCS95-R24	HCS95-L24	24	33.94	35.94
HCS95-R30	HCS95-L30	30	42.42	44.42
HCS95-R36	HCS95-L36	36	50.91	52.91
HCS95-R48	HCS95-L48	48	67.88	69.88
HCS95-R60	HCS95-L60	60	84.85	86.85
HCS95-R72	HCS95-L72	72	101.82	103.82

Other numbers of teeth are available on request.



MODULE	STYLE	BORE	MATERIAL	QUALITY	PRES. ANGLE	HELIX ANGLE
1.0	R & L Hand PIN HUB	8	ALUMINUM DIN 3.1355	DIN 7 AGMA 10	20°	45°



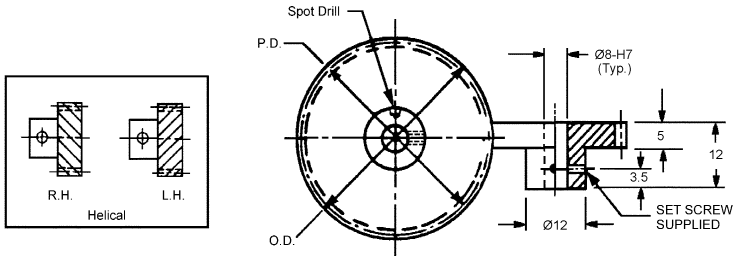
RIGHT HAND STOCK NO.	LEFT HAND STOCK NO.	NO. OF TEETH	P.D.	O.D.
HCA95-R12	HCA95-L12	12	16.94	18.97
HCA95-R18	HCA95-L18	18	25.45	27.45
HCA95-R24	HCA95-L24	24	33.94	35.94
HCA95-R30	HCA95-L30	30	42.42	44.42
HCA95-R36	HCA95-L36	36	50.91	52.91
HCA95-R48	HCA95-L48	48	67.88	69.88
HCA95-R60	HCA95-L60	60	84.85	86.85
HCA95-R72	HCA95-L72	72	101.82	103.82

Other numbers of teeth are available on request.



HELICAL GEARS

MODULE	STYLE	BORE	MATERIAL	QUALITY	PRES. ANGLE	HELIX ANGLE
0.8	R & L Hand PIN HUB	8	STAINLESS STEEL DIN 1.4305	DIN 7 AGMA 10	20°	45°

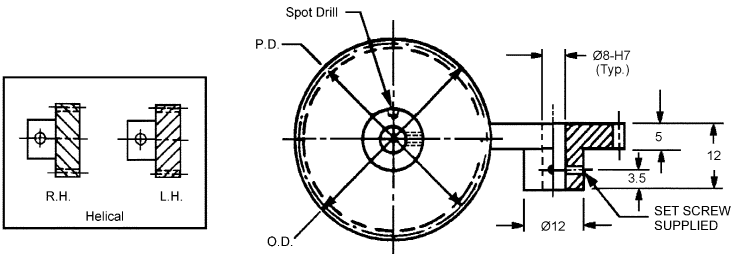


RIGHT HAND STOCK NO.	LEFT HAND STOCK NO.	NO. OF TEETH	P.D.	O.D.
HDS95-R16	HDS95-L16	16	18.10	19.70
HDS95-R24	HDS95-L24	24	27.15	28.75
HDS95-R32	HDS95-L32	32	36.20	37.80
HDS95-R40	HDS95-L40	40	45.25	46.85
HDS95-R48	HDS95-L48	48	54.30	55.90
HDS95-R64	HDS95-L64	64	72.40	74.00
HDS95-R80	HDS95-L80	80	90.50	92.10
HDS95-R96	HDS95-L96	96	108.61	110.21

Other numbers of teeth are available on request.



MODULE	STYLE	BORE	MATERIAL	QUALITY	PRES. ANGLE	HELIX ANGLE
0.8	R & L Hand PIN HUB	8	ALUMINUM DIN 3.1355	DIN 7 AGMA 10	20°	45°



RIGHT HAND STOCK NO.	LEFT HAND STOCK NO.	NO. OF TEETH	P.D.	O.D.
HDA95-R16	HDA95-L16	16	18.10	19.70
HDA95-R24	HDA95-L24	24	27.15	28.75
HDA95-R32	HDA95-L32	32	36.20	37.80
HDA95-R40	HDA95-L40	40	45.25	46.85
HDA95-R48	HDA95-L48	48	54.30	55.90
HDA95-R64	HDA95-L64	64	72.40	74.00
HDA95-R80	HDA95-L80	80	90.50	92.10
HDA95-R96	HDA95-L96	96	108.61	110.21

Other numbers of teeth are available on request.



HELICAL GEARS

MODULE	STYLE	BORES	MATERIAL	QUALITY	PRES. ANGLE	HELIX ANGLE
0.5	RIGHT HAND PIN HUB	5	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1555	DIN 7 AGMA 10	20°	45°

STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	P.D.	O.D.
HFS83-R20	HFA83-R20	20	14.14	15.14
HFS83-R24	HFA83-R24	24	16.97	17.97
HFS83-R25	HFA83-R25	25	17.68	18.68
HFS83-R30	HFA83-R30	30	21.21	22.21
HFS83-R35	HFA83-R35	35	24.75	25.75
HFS83-R36	HFA83-R36	36	25.46	26.46
HFS83-R40	HFA83-R40	40	28.28	29.28
HFS83-R45	HFA83-R45	45	31.82	32.82
HFS83-R48	HFA83-R48	48	33.94	34.94
HFS83-R50	HFA83-R50	50	35.36	36.36
HFS83-R60	HFA83-R60	60	42.43	43.43
HFS83-R70	HFA83-R70	70	49.50	50.50
HFS83-R72	HFA83-R72	72	50.91	51.91
HFS83-R80	HFA83-R80	80	56.57	57.57
HFS83-R90	HFA83-R90	90	63.64	64.64
HFS83-R96	HFA83-R96	96	67.88	68.88
HFS83-R100	HFA83-R100	100	70.71	71.71
HFS83-R120	HFA83-R120	120	84.85	85.85
HFS83-R144	HFA83-R144	144	101.82	102.82

Other numbers of teeth are available on request.
• For 15 teeth hub diameter equals 9.3

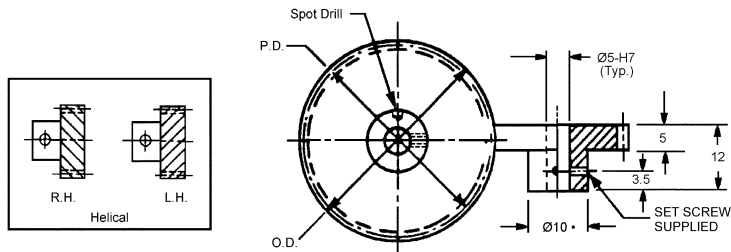
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MODULE	STYLE	BORES	MATERIAL	QUALITY	PRES. ANGLE	HELIX ANGLE
0.5	LEFT HAND PIN HUB	5	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1555	DIN 7 AGMA 10	20°	45°

STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	P.D.	O.D.
HFS83-L20	HFA83-L20	20	14.14	15.14
HFS83-L24	HFA83-L24	24	16.97	17.97
HFS83-L25	HFA83-L25	25	17.68	18.68
HFS83-L30	HFA83-L30	30	21.21	22.21
HFS83-L35	HFA83-L35	35	24.75	25.75
HFS83-L36	HFA83-L36	36	25.46	26.46
HFS83-L40	HFA83-L40	40	28.28	29.28
HFS83-L45	HFA83-L45	45	31.82	32.82
HFS83-L48	HFA83-L48	48	33.94	34.94
HFS83-L50	HFA83-L50	50	35.36	36.36
HFS83-L60	HFA83-L60	60	42.43	43.43
HFS83-L70	HFA83-L70	70	49.50	50.50
HFS83-L72	HFA83-L72	72	50.91	51.91
HFS83-L80	HFA83-L80	80	56.57	57.57
HFS83-L90	HFA83-L90	90	63.64	64.64
HFS83-L96	HFA83-L96	96	67.88	68.88
HFS83-L100	HFA83-L100	100	70.71	71.71
HFS83-L120	HFA83-L120	120	84.85	85.85
HFS83-L144	HFA83-L144	144	101.82	102.82



Other numbers of teeth are available on request.
• For 15 teeth hub diameter equals 9.3



HELICAL GEARS

MODULE	STYLE	BORES	MATERIAL	QUALITY	PRES. ANGLE	HELIX ANGLE
0.5	RIGHT HAND PIN HUB	8	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1555	DIN 7 AGMA 10	20°	45°

STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	P.D.	O.D.
HFS95-R20	HFA95-R20	20	14.14	15.14
HFS95-R24	HFA95-R24	24	16.97	17.97
HFS95-R25	HFA95-R25	25	17.68	18.68
HFS95-R30	HFA95-R30	30	21.21	22.21
HFS95-R35	HFA95-R35	35	24.75	25.75
HFS95-R36	HFA95-R36	36	25.46	26.46
HFS95-R40	HFA95-R40	40	28.28	29.28
HFS95-R45	HFA95-R45	45	31.82	32.82
HFS95-R48	HFA95-R48	48	33.94	34.94
HFS95-R50	HFA95-R50	50	35.36	36.36
HFS95-R60	HFA95-R60	60	42.43	43.43
HFS95-R70	HFA95-R70	70	49.50	50.50
HFS95-R72	HFA95-R72	72	50.91	51.91
HFS95-R80	HFA95-R80	80	56.57	57.57
HFS95-R90	HFA95-R90	90	63.64	64.64
HFS95-R96	HFA95-R96	96	67.88	68.88
HFS95-R100	HFA95-R100	100	70.71	71.71
HFS95-R120	HFA95-R120	120	84.85	85.85
HFS95-R144	HFA95-R144	144	101.82	102.82

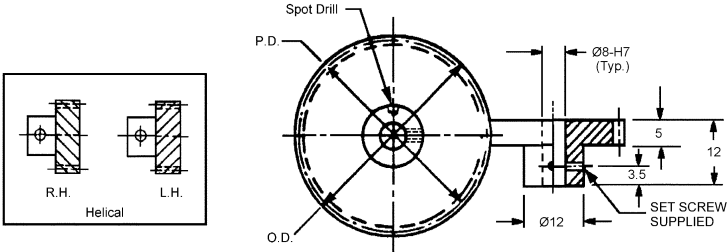
Other numbers of teeth are available on request.

MODULE	STYLE	BORES	MATERIAL	QUALITY	PRES. ANGLE	HELIX ANGLE
0.5	LEFT HAND PIN HUB	8	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1555	DIN 7 AGMA 10	20°	45°

STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	P.D.	O.D.
HFS95-L20	HFA95-L20	20	14.14	15.14
HFS95-L24	HFA95-L24	24	16.97	17.97
HFS95-L25	HFA95-L25	25	17.68	18.68
HFS95-L30	HFA95-L30	30	21.21	22.21
HFS95-L35	HFA95-L35	35	24.75	25.75
HFS95-L36	HFA95-L36	36	25.46	26.46
HFS95-L40	HFA95-L40	40	28.28	29.28
HFS95-L45	HFA95-L45	45	31.82	32.82
HFS95-L48	HFA95-L48	48	33.94	34.94
HFS95-L50	HFA95-L50	50	35.36	36.36
HFS95-L60	HFA95-L60	60	42.43	43.43
HFS95-L70	HFA95-L70	70	49.50	50.50
HFS95-L72	HFA95-L72	72	50.91	51.91
HFS95-L80	HFA95-L80	80	56.57	57.57
HFS95-L90	HFA95-L90	90	63.64	64.64
HFS95-L96	HFA95-L96	96	67.88	68.88
HFS95-L100	HFA95-L100	100	70.71	71.71
HFS95-L120	HFA95-L120	120	84.85	85.85
HFS95-L144	HFA95-L144	144	101.82	102.82



Other numbers of teeth are available on request.



HELICAL GEARS

MODULE	STYLE	BORE	MATERIAL	QUALITY	PRES. ANGLE	HELIX ANGLE
0.4	RIGHT HAND PIN HUB	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1555	DIN 7 AGMA 10	20°	45°

STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	P.D.	O.D.
HGS80-R20	HGA80-R20	20	11.31	12.11
HGS80-R25	HGA80-R25	25	14.14	14.94
HGS80-R30	HGA80-R30	30	16.97	17.77
HGS80-R32	HGA80-R32	32	18.10	18.90
HGS80-R35	HGA80-R35	35	19.80	20.60
HGS80-R40	HGA80-R40	40	22.63	23.43
HGS80-R45	HGA80-R45	45	54.46	26.26
HGS80-R48	HGA80-R48	48	27.15	27.95
HGS80-R50	HGA80-R50	50	28.28	29.08
HGS80-R60	HGA80-R60	60	33.94	34.74
HGS80-R64	HGA80-R64	64	36.20	37.00
HGS80-R70	HGA80-R70	70	39.60	40.40
HGS80-R80	HGA80-R80	80	45.25	46.05
HGS80-R90	HGA80-R90	90	50.91	51.71
HGS80-R96	HGA80-R96	96	54.31	55.11
HGS80-R100	HGA80-R100	100	56.57	57.37
HGS80-R128	HGA80-R128	128	72.41	73.21
HGS80-R160	HGA80-R160	160	90.51	91.31

Other numbers of teeth are available on request.
• For 12 - 19 teeth hub diameter equals 5.7

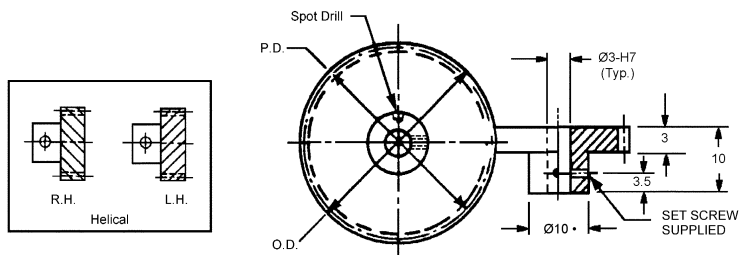
B

MODULE	STYLE	BORE	MATERIAL	QUALITY	PRES. ANGLE	HELIX ANGLE
0.4	LEFT HAND PIN HUB	3	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1555	DIN 7 AGMA 10	20°	45°

STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	P.D.	O.D.
HGS80-L20	HGA80-L20	20	11.31	12.11
HGS80-L25	HGA80-L25	25	14.14	14.94
HGS80-L30	HGA80-L30	30	16.97	17.77
HGS80-L32	HGA80-L32	32	18.10	18.90
HGS80-L35	HGA80-L35	35	19.80	20.60
HGS80-L40	HGA80-L40	40	22.63	23.43
HGS80-L45	HGA80-L45	45	54.46	26.26
HGS80-L48	HGA80-L48	48	27.15	27.95
HGS80-L50	HGA80-L50	50	28.28	29.08
HGS80-L60	HGA80-L60	60	33.94	34.74
HGS80-L64	HGA80-L64	64	36.20	37.00
HGS80-L70	HGA80-L70	70	39.60	40.40
HGS80-L80	HGA80-L80	80	45.25	46.05
HGS80-L90	HGA80-L90	90	50.91	51.71
HGS80-L96	HGA80-L96	96	54.31	55.11
HGS80-L100	HGA80-L100	100	56.57	57.37
HGS80-L128	HGA80-L128	128	72.41	73.21
HGS80-L160	HGA80-L160	160	90.51	91.31



Other numbers of teeth are available on request.
• For 12 - 19 teeth hub diameter equals 5.7



HELICAL GEARS

MODULE	STYLE	BORES	MATERIAL	QUALITY	PRES. ANGLE	HELIX ANGLE
0.4	RIGHT HAND PIN HUB	5	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1555	DIN 7 AGMA 10	20°	45°

STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	P.D.	O.D.
HGS83-R20	HGA83-R20	20	11.31	12.11
HGS83-R25	HGA83-R25	25	14.14	14.94
HGS83-R30	HGA83-R30	30	16.97	17.77
HGS83-R32	HGA83-R32	32	18.10	18.90
HGS83-R35	HGA83-R35	35	19.80	20.60
HGS83-R40	HGA83-R40	40	22.63	23.43
HGS83-R45	HGA83-R45	45	25.46	26.26
HGS83-R48	HGA83-R48	48	27.15	27.95
HGS83-R50	HGA83-R50	50	28.28	29.08
HGS83-R60	HGA83-R60	60	33.94	34.74
HGS83-R64	HGA83-R64	64	36.20	37.00
HGS83-R70	HGA83-R70	70	39.60	40.40
HGS83-R80	HGA83-R80	80	45.25	46.05
HGS83-R90	HGA83-R90	90	50.91	51.71
HGS83-R96	HGA83-R96	96	54.31	55.11
HGS83-R100	HGA83-R100	100	56.57	57.37
HGS83-R128	HGA83-R128	128	72.41	73.21
HGS83-R160	HGA83-R160	160	90.51	91.31

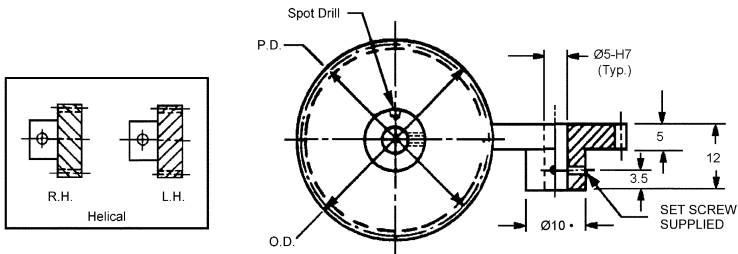
Other numbers of teeth are available on request.
• For 15 - 19 teeth hub diameter equals 7.5

MODULE	STYLE	BORES	MATERIAL	QUALITY	PRES. ANGLE	HELIX ANGLE
0.4	LEFT HAND PIN HUB	5	STAINLESS STEEL DIN 1.4305 OR ALUMINUM DIN 3.1555	DIN 7 AGMA 10	20°	45°

STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	P.D.	O.D.
HGS83-L20	HGA83-L20	20	11.31	12.11
HGS83-L25	HGA83-L25	25	14.14	14.94
HGS83-L30	HGA83-L30	30	16.97	17.77
HGS83-L32	HGA83-L32	32	18.10	18.90
HGS83-L35	HGA83-L35	35	19.80	20.60
HGS83-L40	HGA83-L40	40	22.63	23.43
HGS83-L45	HGA83-L45	45	25.46	26.26
HGS83-L48	HGA83-L48	48	27.15	27.95
HGS83-L50	HGA83-L50	50	28.28	29.08
HGS83-L60	HGA83-L60	60	33.94	34.74
HGS83-L64	HGA83-L64	64	36.20	37.00
HGS83-L70	HGA83-L70	70	39.60	40.40
HGS83-L80	HGA83-L80	80	45.25	46.05
HGS83-L90	HGA83-L90	90	50.91	51.71
HGS83-L96	HGA83-L96	96	54.31	55.11
HGS83-L100	HGA83-L100	100	56.57	57.37
HGS83-L128	HGA83-L128	128	72.41	73.21
HGS83-L160	HGA83-L160	160	90.51	91.31

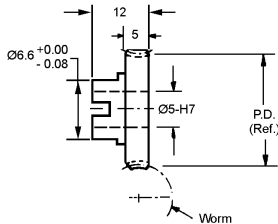
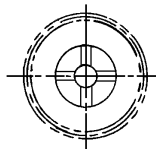


Other numbers of teeth are available on request.
• For 15 - 19 teeth hub diameter equals 7.5



PRECISION WORM GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.4	SINGLE, DOUBLE OR FOUR THREAD CLAMP HUB	5	5	464 BRASS ALLOY	DIN 7/AGMA 10	RIGHT HAND

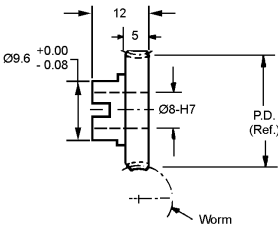
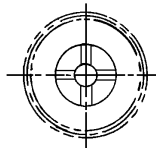


May be two piece construction. Hub diameter never exceeds O.D.
Other number of teeth AGMA 12 ir 14 / DIN 5 or 3 available on request.

SINGLE THREAD WORM		DOUBLE THREAD WORM		FOUR THREAD WORM		NO. OF TEETH	PITCH DIA.
Circular Pitch	1.257	Circular Pitch	2.513	Circular Pitch	5.027		
Helix Angle	1° 44'	Helix Angle	3° 28'	Helix Angle	6° 54'		
Pressure Angle	14-1/2°	Pressure Angle	14-1/2°	Pressure Angle	14-1/2°		
STOCK NO.		STOCK NO.		STOCK NO..			
WGB83-S40C		WGB83-D40C		WGB83-F40C		40	16.00
WGB83-S50C		WGB83-D50C		WGB83-F50C		50	20.00
WGB83-S60C		WGB83-D60C		WGB83-F60C		60	24.00
WGB83-S70C		WGB83-D70C		WGB83-F70C		70	28.00
WGB83-S80C		WGB83-D80C		WGB83-F80C		80	32.00
WGB83-S90C		WGB83-D90C		WGB83-F90C		90	36.00
WGB83-S100C		WGB83-D100C		WGB83-F100C		100	40.00
WGB83-S110C		WGB83-D110C		WGB83-F110C		110	44.00
WGB83-S120C		WGB83-D120C		WGB83-F120C		120	48.00

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.4	SINGLE, DOUBLE OR FOUR THREAD CLAMP HUB	8	5	464 BRASS ALLOY	DIN 7/AGMA 10	RIGHT HAND



May be two piece construction. Hub diameter never exceeds O.D.
Other number of teeth AGMA 12 ir 14 / DIN 5 or 3 available on request.

SINGLE THREAD WORM		DOUBLE THREAD WORM		FOUR THREAD WORM		NO. OF TEETH	PITCH DIA.
Circular Pitch	1.257	Circular Pitch	2.513	Circular Pitch	5.027		
Helix Angle	1° 44'	Helix Angle	3° 28'	Helix Angle	6° 54'		
Pressure Angle	14-1/2°	Pressure Angle	14-1/2°	Pressure Angle	14-1/2°		
STOCK NO.		STOCK NO.		STOCK NO..			
WGB95-S40C		WGB95-D40C		WGB95-F40C		40	16.00
WGB95-S50C		WGB95-D50C		WGB95-F50C		50	20.00
WGB95-S60C		WGB95-D60C		WGB95-F60C		60	24.00
WGB95-S70C		WGB95-D70C		WGB95-F70C		70	28.00
WGB95-S80C		WGB95-D80C		WGB95-F80C		80	32.00
WGB95-S90C		WGB95-D90C		WGB95-F90C		90	36.00
WGB95-S100C		WGB95-D100C		WGB95-F100C		100	40.00
WGB95-S110C		WGB95-D110C		WGB95-F110C		110	44.00
WGB95-S120C		WGB95-D120C		WGB95-F120C		120	48.00
WGB95-S180C		WGB95-D180C		WGB95-F180C		180	72.00

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

ANTI-BACKLASH WORM GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.5	SINGLE THREAD PIN HUB	5	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWFB83-S40	40	20.00
AWFB83-S50	50	25.00
AWFB83-S60	60	30.00
AWFB83-S70	70	35.00
AWFB83-S80	80	40.00
AWFB83-S90	90	45.00
AWFB83-S100	100	50.00
AWFB83-S120	120	60.00
AWFB83-S180	180	90.00

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

Circular Pitch 1.571
Helix Angle 3° 10'
Pressure Angle 14-1/2°
Runs with worm # WFS-5S

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.5	DOUBLE THREAD PIN HUB	5	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWFB83-D40	40	20.00
AWFB83-D50	50	25.00
AWFB83-D60	60	30.00
AWFB83-D70	70	35.00
AWFB83-D80	80	40.00
AWFB83-D90	90	45.00
AWFB83-D100	100	50.00
AWFB83-D120	120	60.00
AWFB83-D180	180	90.00

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

Circular Pitch 3.142
Helix Angle 6° 20'
Pressure Angle 20°
Runs with worm # WFS-5D

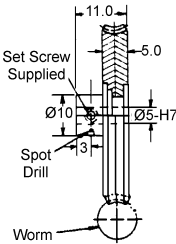
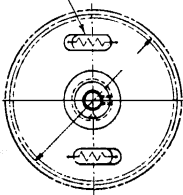
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.5	FOUR THREAD PIN HUB	5	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWFB83-F40	40	20.00
AWFB83-F50	50	25.00
AWFB83-F60	60	30.00
AWFB83-F70	70	35.00
AWFB83-F80	80	40.00
AWFB83-F90	90	45.00
AWFB83-F100	100	50.00
AWFB83-F120	120	60.00
AWFB83-F180	180	90.00

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

Circular Pitch 6.283
Helix Angle 12° 31'
Pressure Angle 25°
Runs with worm # WFS-5F
Other numbers of teeth are
available on request.

Scissor Spring
Or Coil Hub



For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

ANTI-BACKLASH WORM GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.5	SINGLE THREAD PIN HUB	8	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWFB95-S40	40	20.00
AWFB95-S50	50	25.00
AWFB95-S60	60	30.00
AWFB95-S70	70	35.00
AWFB95-S80	80	40.00
AWFB95-S90	90	45.00
AWFB95-S100	100	50.00
AWFB95-S120	120	60.00
AWFB95-S180	180	90.00

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

Circular Pitch 1.571
Helix Angle 3° 10'
Pressure Angle 14-1/2°
Runs with worm # WFS-3S

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.5	DOUBLE THREAD PIN HUB	8	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWFB95-D40	40	20.00
AWFB95-D50	50	25.00
AWFB95-D60	60	30.00
AWFB95-D70	70	35.00
AWFB95-D80	80	40.00
AWFB95-D90	90	45.00
AWFB95-D100	100	50.00
AWFB95-D120	120	60.00
AWFB95-D180	180	90.00

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

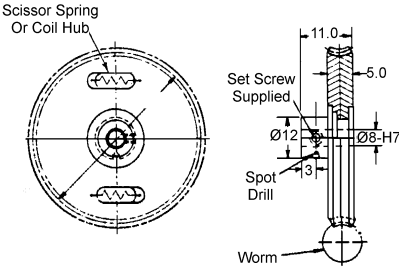
Circular Pitch 3.142
Helix Angle 6° 20'
Pressure Angle 20°
Runs with worm # WFS-3D

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.5	FOUR THREAD PIN HUB	8	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWFB95-F40	40	20.00
AWFB95-F50	50	25.00
AWFB95-F60	60	30.00
AWFB95-F70	70	35.00
AWFB95-F80	80	40.00
AWFB95-F90	90	45.00
AWFB95-F100	100	50.00
AWFB95-F120	120	60.00
AWFB95-F180	180	90.00

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

Circular Pitch 6.283
Helix Angle 12° 31'
Pressure Angle 25°
Runs with worm # WFS-3F
Other numbers of teeth are available on request.



ANTI-BACKLASH WORM GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.4	SINGLE THREAD PIN HUB	5	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWGB83-S50	50	20.00
AWGB83-S60	60	24.00
AWGB83-S70	70	28.00
AWGB83-S80	80	32.00
AWGB83-S90	90	36.00
AWGB83-S100	100	40.00
AWGB83-S110	110	44.00
AWGB83-S120	120	48.00
AWGB83-S180	180	72.00

Ratio = $\frac{\# \text{ of Teeth}}{\text{Worm Threads}}$

Circular Pitch 1.257
Helix Angle 1° 44'
Pressure Angle 14-1/2°
Runs with worm # WGS-5S

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.4	DOUBLE THREAD PIN HUB	5	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWGB83-D50	50	20.00
AWGB83-D60	60	24.00
AWGB83-D70	70	28.00
AWGB83-D80	80	32.00
AWGB83-D90	90	36.00
AWGB83-D100	100	40.00
AWGB83-D110	110	44.00
AWGB83-D120	120	48.00
AWGB83-D180	180	72.00

Ratio = $\frac{\# \text{ of Teeth}}{\text{Worm Threads}}$

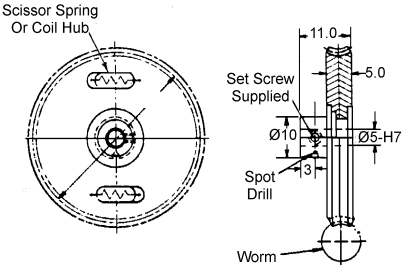
Circular Pitch 2.513
Helix Angle 3° 28'
Pressure Angle 14-1/2°
Runs with worm # WGS-5D

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.4	FOUR THREAD PIN HUB	5	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWGB83-F50	50	20.00
AWGB83-F60	60	24.00
AWGB83-F70	70	28.00
AWGB83-F80	80	32.00
AWGB83-F90	90	36.00
AWGB83-F100	100	40.00
AWGB83-F110	110	44.00
AWGB83-F120	120	48.00
AWGB83-F180	180	72.00

Ratio = $\frac{\# \text{ of Teeth}}{\text{Worm Threads}}$

Circular Pitch 5.027
Helix Angle 6° 54'
Pressure Angle 14-1/2°
Runs with worm # WGS-5F
Other numbers of teeth are
available on request.



ANTI-BACKLASH WORM GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.4	SINGLE THREAD PIN HUB	8	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

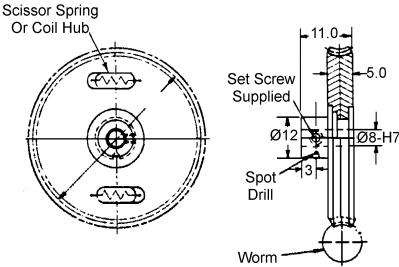
STOCK NO.	NO. OF TEETH	PITCH DIA.	Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$
AWGB95-S50	50	20.00	Circular Pitch 1.257 Helix Angle 1° 44' Pressure Angle 14-1/2° Runs with worm # WGS-3S # WGS-5S # WGS-7S
AWGB95-S60	60	24.00	
AWGB95-S70	70	28.00	
AWGB95-S80	80	32.00	
AWGB95-S90	90	36.00	
AWGB95-S100	100	40.00	
AWGB95-S110	110	44.00	
AWGB95-S120	120	48.00	
AWGB95-S180	180	72.00	

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.4	DOUBLE THREAD PIN HUB	8	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.	Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$
AWGB95-D50	50	20.00	Circular Pitch 2.513 Helix Angle 3° 28' Pressure Angle 14-1/2° Runs with worm # WGS-3D # WGS-5D # WGS-7D
AWGB95-D60	60	24.00	
AWGB95-D70	70	28.00	
AWGB95-D80	80	32.00	
AWGB95-D90	90	36.00	
AWGB95-D100	100	40.00	
AWGB95-D110	110	44.00	
AWGB95-D120	120	48.00	
AWGB95-D180	180	72.00	

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.4	FOUR THREAD PIN HUB	8	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.	Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$
AWGB95-F50	50	20.00	Circular Pitch 5.027 Helix Angle 6° 54' Pressure Angle 14-1/2° Runs with worm # WFG-3D # WFG-5D # WFG-7DF
AWGB95-F60	60	24.00	
AWGB95-F70	70	28.00	
AWGB95-F80	80	32.00	
AWGB95-F90	90	36.00	
AWGB95-F100	100	40.00	
AWGB95-F110	110	44.00	
AWGB95-F120	120	48.00	
AWGB95-F180	180	72.00	



For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

ANTI-BACKLASH WORM GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.5	SINGLE THREAD CLAMP HUB	5	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWFB83-S40-C	40	20.00
AWFB83-S50-C	50	25.00
AWFB83-S60-C	60	30.00
AWFB83-S70-C	70	35.00
AWFB83-S80-C	80	40.00
AWFB83-S90-C	90	45.00
AWFB83-S100-C	100	50.00
AWFB83-S120-C	120	60.00
AWFB83-S180-C	180	90.00

Ratio = $\frac{\# \text{ of Teeth}}{\text{Worm Threads}}$

Circular Pitch 1.571
Helix Angle 3° 10'
Pressure Angle 14/1/2°
Runs with worm # WFS-5S

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.5	DOUBLE THREAD CLAMP HUB	5	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWFB83-D40-C	40	20.00
AWFB83-D50-C	50	25.00
AWFB83-D60-C	60	30.00
AWFB83-D70-C	70	35.00
AWFB83-D80-C	80	40.00
AWFB83-D90-C	90	45.00
AWFB83-D100-C	100	50.00
AWFB83-D120-C	120	60.00
AWFB83-D180-C	180	90.00

Ratio = $\frac{\# \text{ of Teeth}}{\text{Worm Threads}}$

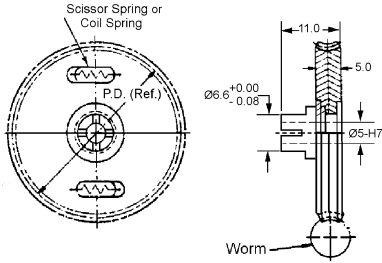
Circular Pitch 3.142
Helix Angle 6° 20'
Pressure Angle 20°
Runs with worm # WFS-5D

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.5	FOUR THREAD CLAMP HUB	5	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWFB83-F40-C	40	20.00
AWFB83-F50-C	50	25.00
AWFB83-F60-C	60	30.00
AWFB83-F70-C	70	35.00
AWFB83-F80-C	80	40.00
AWFB83-F90-C	90	45.00
AWFB83-F100-C	100	50.00
AWFB83-F120-C	120	60.00
AWFB83-F180-C	180	90.00

Ratio = $\frac{\# \text{ of Teeth}}{\text{Worm Threads}}$

Circular Pitch 6.283
Helix Angle 12° 31'
Pressure Angle 25°
Runs with worm # WFS-5F
Other numbers of teeth are available on request.



ANTI-BACKLASH WORM GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.5	SINGLE THREAD CLAMP HUB	8	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWFB95-S40-C	40	20.00
AWFB95-S50-C	50	25.00
AWFB95-S60-C	60	30.00
AWFB95-S70-C	70	35.00
AWFB95-S80-C	80	40.00
AWFB95-S90-C	90	45.00
AWFB95-S100-C	100	50.00
AWFB95-S120-C	120	60.00
AWFB95-S180-C	180	90.00

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

Circular Pitch 1.571
Helix Angle 3° 10'
Pressure Angle 14/1/2°
Runs with worm # WFS-3S

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.5	DOUBLE THREAD CLAMP HUB	8	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWFB95-D40-C	40	20.00
AWFB95-D50-C	50	25.00
AWFB95-D60-C	60	30.00
AWFB95-D70-C	70	35.00
AWFB95-D80-C	80	40.00
AWFB95-D90-C	90	45.00
AWFB95-D100-C	100	50.00
AWFB95-D120-C	120	60.00
AWFB95-D180-C	180	90.00

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

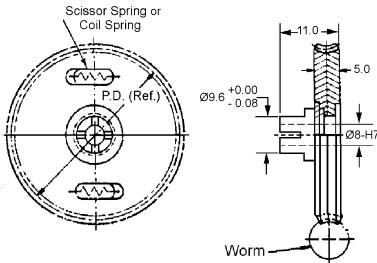
Circular Pitch 3.142
Helix Angle 6° 20'
Pressure Angle 20°
Runs with worm # WFS-3D

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.5	FOUR THREAD CLAMP HUB	8	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWFB95-F40-C	40	20.00
AWFB95-F50-C	50	25.00
AWFB95-F60-C	60	30.00
AWFB95-F70-C	70	35.00
AWFB95-F80-C	80	40.00
AWFB95-F90-C	90	45.00
AWFB95-F100-C	100	50.00
AWFB95-F120-C	120	60.00
AWFB95-F180-C	180	90.00

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

Circular Pitch 6.283
Helix Angle 12° 31'
Pressure Angle 25°
Runs with worm # WFS-3F
Other numbers of teeth are available on request.



For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

ANTI-BACKLASH WORM GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.4	SINGLE THREAD CLAMP HUB	5	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWGB83-S50-C	50	20.00
AWGB83-S60-C	60	24.00
AWGB83-S70-C	70	28.00
AWGB83-S80-C	80	32.00
AWGB83-S90-C	90	36.00
AWGB83-S100-C	100	40.00
AWGB83-S110-C	110	44.00
AWGB83-S120-C	120	48.00
AWGB83-S180-C	180	72.00

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Circular Pitch 1.257
Helix Angle 1° 44'
Pressure Angle 14 1/2°
Runs with worm # WGS-3S
WGS-5S
WGS-7S

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.4	DOUBLE THREAD CLAMP HUB	5	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWGB83-D50-C	50	20.00
AWGB83-D60-C	60	24.00
AWGB83-D70-C	70	28.00
AWGB83-D80-C	80	32.00
AWGB83-D90-C	90	36.00
AWGB83-D100-C	100	40.00
AWGB83-D110-C	110	44.00
AWGB83-D120-C	120	48.00
AWGB83-D180-C	180	72.00

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Circular Pitch 2.513
Helix Angle 3° 28'
Pressure Angle 14-1/2°
Runs with worm # WGS-3D
WGS-5D
WGS-7D

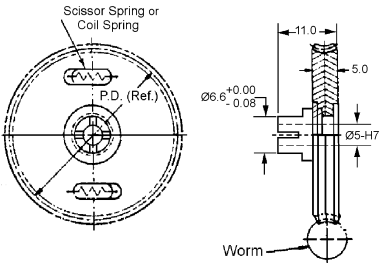
MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.4	FOUR THREAD CLAMP HUB	5	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWGB83-F50-C	50	20.00
AWGB83-F60-C	60	24.00
AWGB83-F70-C	70	28.00
AWGB83-F80-C	80	32.00
AWGB83-F90-C	90	36.00
AWGB83-F100-C	100	40.00
AWGB83-F110-C	110	44.00
AWGB83-F120-C	120	48.00
AWGB83-F180-C	180	72.00

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Circular Pitch 5.027
Helix Angle 6° 54'
Pressure Angle 14-1/2°
Runs with worm # WGS-3F
WGS-5F
WGS-7F

Other numbers of teeth are available on request.



For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

ANTI-BACKLASH WORM GEARS

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.4	SINGLE THREAD CLAMP HUB	8	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWGB95-S50-C	50	20.00
AWGB95-S60-C	60	24.00
AWGB95-S70-C	70	28.00
AWGB95-S80-C	80	32.00
AWGB95-S90-C	90	36.00
AWGB95-S100-C	100	40.00
AWGB95-S110-C	110	44.00
AWGB95-S120-C	120	48.00
AWGB95-S180-C	180	72.00

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

Circular Pitch 1.257
Helix Angle 1° 44'
Pressure Angle 14 1/2°

Runs with worm # WGS-3S
WGS-5S
WGS-7S

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.4	DOUBLE THREAD CLAMP HUB	8	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

STOCK NO.	NO. OF TEETH	PITCH DIA.
AWGB95-D50-C	50	20.00
AWGB95-D60-C	60	24.00
AWGB95-D70-C	70	28.00
AWGB95-D80-C	80	32.00
AWGB95-D90-C	90	36.00
AWGB95-D100-C	100	40.00
AWGB95-D110-C	110	44.00
AWGB95-D120-C	120	48.00
AWGB95-D180-C	180	72.00

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

Circular Pitch 2.513
Helix Angle 3° 28'
Pressure Angle 14-1/2°

Runs with worm # WGS-3D
WGS-5D
WGS-7D

MODULE	STYLE	BORE	FACE	MATERIAL	QUALITY	TYPE
0.4	FOUR THREAD CLAMP HUB	8	5	GEARS 464 BRASS ALLOY HUBS STAINLESS DIN 1.4305	DIN 7/AGMA 10	RIGHT HAND

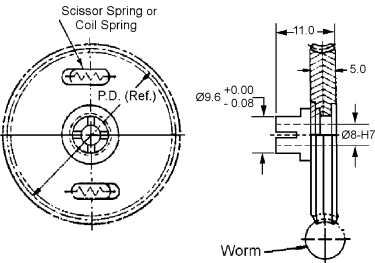
STOCK NO.	NO. OF TEETH	PITCH DIA.
AWGB95-F50-C	50	20.00
AWGB95-F60-C	60	24.00
AWGB95-F70-C	70	28.00
AWGB95-F80-C	80	32.00
AWGB95-F90-C	90	36.00
AWGB95-F100-C	100	40.00
AWGB95-F110-C	110	44.00
AWGB95-F120-C	120	48.00
AWGB95-F180-C	180	72.00

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

Circular Pitch 5.027
Helix Angle 6° 54'
Pressure Angle 14-1/2°

Runs with worm # WGS-3F
WGS-5F
WGS-7F

Other numbers of teeth are available on request.



For Couplings See Section MG.
For Shafts, Bearings and Collars See Section MI.

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