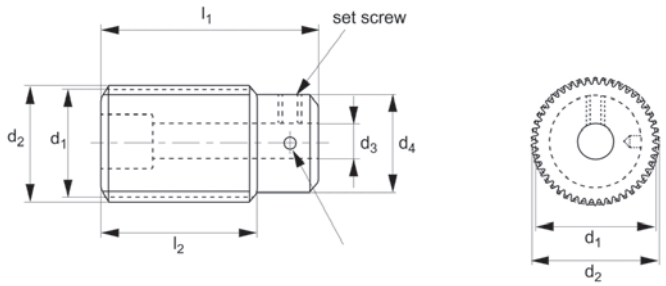


R2132

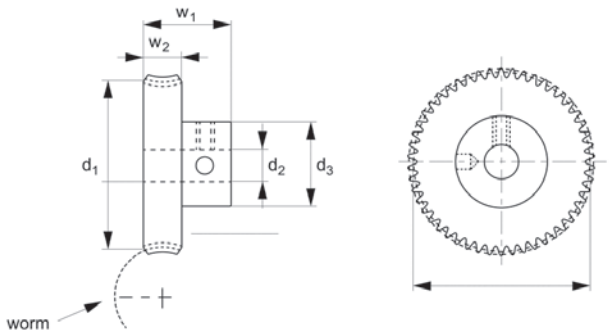
Material
Stainless steel (DIN 1,4305).

Technical Notes
Quality class DIN 7/AGMA 10.
Right hand.

Order No.	Ø B	Thread	Lead	Lead angle	Pressure angle
WAS-7S	7	Single	4.712	5° 21‘	14½°
WAS-7D	7	Double	9.425	10° 37‘	14½°
WAS-7F	7	Four	18.850	20° 33‘	20°
WAS-8S	8	Single	4.712	5° 21‘	14½°
WAS-8D	8	Double	9.425	10° 37‘	14½°
WAS-8F	8	Four	18.850	20° 33‘	20°

1,0 Module Precision Worm Gears
Right Hand

R2134



Material
Brass.

Technical Notes
Quality class DIN 7/AGMA 10.

Right hand.
Select worm part R2136 with corresponding number of threads.

Tips
Ratio=(No. of teeth/No. of worm threads).
For larger sizes, please see the following page.

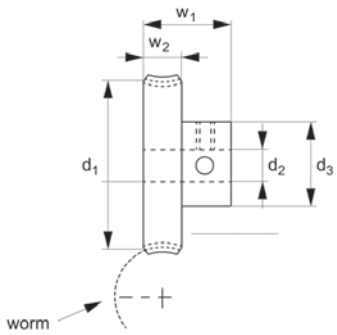
Order No.	Starts	No. of teeth	Bore dia.	Pitch dia. P.D.	Circular pitch	Helix angle	Pressure angle
R2134.020-10S	Single	20	10	20.00	3.142	4° 45‘	14½°
R2134.030-10S	Single	30	10	30.00	3.142	4° 45‘	14½°
R2134.040-10S	Single	40	10	40.00	3.142	4° 45‘	14½°
R2134.050-10S	Single	50	10	50.00	3.142	4° 45‘	14½°
R2134.060-10S	Single	60	10	60.00	3.142	4° 45‘	14½°
R2134.072-10S	Single	72	10	72.00	3.142	4° 45‘	14½°
R2134.080-10S	Single	80	10	80.00	3.142	4° 45‘	14½°
R2134.096-10S	Single	96	10	96.00	3.142	4° 45‘	14½°
R2134.100-10S	Single	100	10	100.00	3.142	4° 45‘	14½°
R2134.020-10D	Double	20	10	20.00	6.283	9° 27‘	20°
R2134.030-10D	Double	30	10	30.00	6.283	9° 27‘	20°
R2134.040-10D	Double	40	10	40.00	6.283	9° 27‘	20°
R2134.050-10D	Double	50	10	50.00	6.283	9° 27‘	20°
R2134.060-10D	Double	60	10	60.00	6.283	9° 27‘	20°
R2134.072-10D	Double	72	10	72.00	6.283	9° 27‘	20°
R2134.080-10D	Double	80	10	80.00	6.283	9° 27‘	20°
R2134.096-10D	Double	96	10	96.00	6.283	9° 27‘	20°
R2134.100-10D	Double	100	10	100.00	6.283	9° 27‘	20°
R2134.020-10F	Four	20	10	20.00	12.566	18° 26‘	25°
R2134.030-10F	Four	30	10	30.00	12.566	18° 26‘	25°
R2134.040-10F	Four	40	10	40.00	12.566	18° 26‘	25°
R2134.050-10F	Four	50	10	50.00	12.566	18° 26‘	25°
R2134.060-10F	Four	60	10	60.00	12.566	18° 26‘	25°
R2134.072-10F	Four	72	10	72.00	12.566	18° 26‘	25°
R2134.080-10F	Four	80	10	80.00	12.566	18° 26‘	25°
R2134.096-10F	Four	96	10	96.00	12.566	18° 26‘	25°
R2134.100-10F	Four	100	10	100.00	12.566	18° 26‘	25°
R2134.020-12S	Single	20	12	20.00	3.142	4° 45‘	14½°
R2134.030-12S	Single	30	12	30.00	3.142	4° 45‘	14½°
R2134.040-12S	Single	40	12	40.00	3.142	4° 45‘	14½°
R2134.050-12S	Single	50	12	50.00	3.142	4° 45‘	14½°
R2134.060-12S	Single	60	12	60.00	3.142	4° 45‘	14½°
R2134.072-12S	Single	72	12	72.00	3.142	4° 45‘	14½°
R2134.080-12S	Single	80	12	80.00	3.142	4° 45‘	14½°

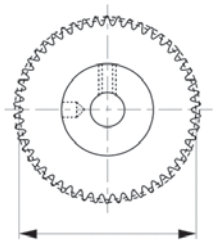
1,0 Module Precision Worm Gears
Right Hand

Order No.	Starts	No. of teeth	Bore dia.	Pitch dia. P.D.	Circular pitch	Helix angle	Pressure angle
R2134.096-12S	Single	96	12	96.00	3.142	4° 45‘	14½°
R2134.100-12S	Single	100	12	100.00	3.142	4° 45‘	14½°
R2134.020-12D	Double	20	12	20.00	6.283	9° 27‘	20°
R2134.030-12D	Double	30	12	30.00	6.283	9° 27‘	20°
R2134.040-12D	Double	40	12	40.00	6.283	9° 27‘	20°
R2134.050-12D	Double	50	12	50.00	6.283	9° 27‘	20°
R2134.060-12D	Double	60	12	60.00	6.283	9° 27‘	20°
R2134.072-12D	Double	72	12	72.00	6.283	9° 27‘	20°
R2134.080-12D	Double	80	12	80.00	6.283	9° 27‘	20°
R2134.096-12D	Double	96	12	96.00	6.283	9° 27‘	20°
R2134.100-12D	Double	100	12	100.00	6.283	9° 27‘	20°

1,0 Module Precision Worm Gears - brass

R2134.1





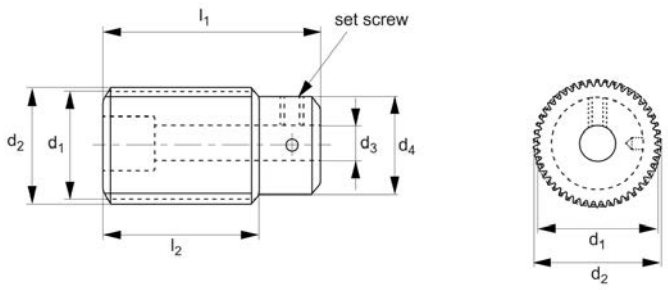
Material
Brass.

Technical Notes
Quality class DIN 7/AGMA 10.

Right hand.
Select worm R2136 with corresponding number of threads.

Tips
Ratio=(No. of teeth/No. of worm threads).
For smaller sizes, please see the previous page.

Order No.	Starts	No. of teeth	Bore dia.	Pitch dia. P.D.	Circular pitch	Helix angle	Pressure angle
R2134.020-12F	Four	20	12	20.00	12.566	18° 26‘	25°
R2134.030-12F	Four	30	12	30.00	12.566	18° 26‘	25°
R2134.040-12F	Four	40	12	40.00	12.566	18° 26‘	25°
R2134.050-12F	Four	50	12	50.00	12.566	18° 26‘	25°
R2134.060-12F	Four	60	12	60.00	12.566	18° 26‘	25°
R2134.072-12F	Four	72	12	72.00	12.566	18° 26‘	25°
R2134.080-12F	Four	80	12	80.00	12.566	18° 26‘	25°
R2134.096-12F	Four	96	12	96.00	12.566	18° 26‘	25°
R2134.100-12F	Four	100	12	100.00	12.566	18° 26‘	25°



R2136

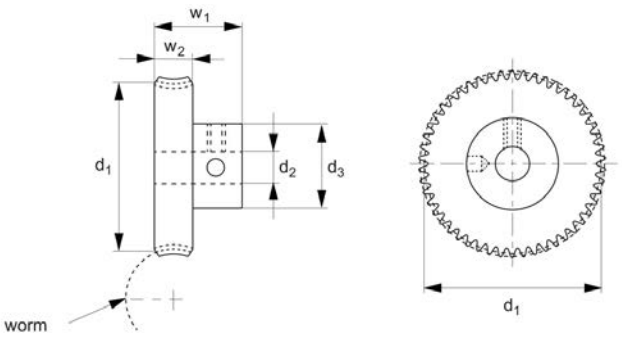
Material
Stainless steel (DIN 1,4305).

Technical Notes
Quality class DIN 7/AGMA 10.
Right hand.

Order No.	Ø B	Starts	Lead	Lead angle	Pressure angle
R2136.07S	7	Single	3.142	4° 45‘	14½°
R2136.07D	7	Double	6.283	9° 27‘	20°
R2136.07F	7	Four	12.566	18° 26‘	25°
R2136.08S	8	Single	3.142	4° 45‘	14½°
R2136.08D	8	Double	6.283	9° 27‘	20°
R2136.08F	8	Four	12.566	18° 26‘	25°

0,8 Module Precision Worm Gears
brass

R2138



Material
Brass.

Technical Notes
Quality class DIN 7/AGMA 10.

Right hand.
Select worm part R2136 with corresponding number of threads.

Tips
Ratio=(No. of teeth/No. of worm threads).

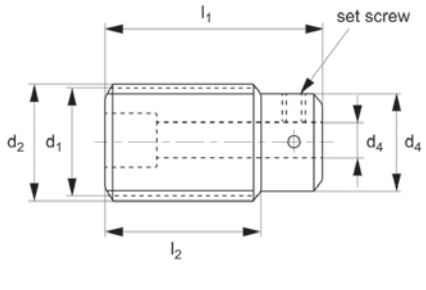
Order No.	Starts	No. of teeth	Bore dia.	Pitch dia. P.D.	Circular pitch	Helix angle	Pressure angle
R2138.020S-05	Single	20	5	16.00	2.513	4° -0‘	14½°
R2138.030S-05	Single	30	5	24.00	2.513	4° -0‘	14½°
R2138.040S-05	Single	40	5	32.00	2.513	4° -0‘	14½°
R2138.050S-05	Single	50	5	40.00	2.513	4° -0‘	14A°
R2138.060S-05	Single	60	5	48.00	2.513	4° -0‘	14A°
R2138.080S-05	Single	80	5	64.00	2.513	4° -0‘	14A°
R2138.090S-05	Single	90	5	76.80	2.513	4° -0‘	14A°
R2138.100S-05	Single	100	5	80.00	2.513	4° -0‘	14A°
R2138.020D-05	Double	20	5	16.00	5.027	7° -59‘	20°
R2138.030D-05	Double	30	5	24.00	5.027	7° -59‘	20°
R2138.040D-05	Double	40	5	32.00	5.027	7° -59‘	20°
R2138.050D-05	Double	50	5	40.00	5.027	7° -59‘	20°
R2138.060D-05	Double	60	5	48.00	5.027	7° -59‘	20°
R2138.080D-05	Double	80	5	64.00	5.027	7° -59‘	20°
R2138.090D-05	Double	90	5	76.80	5.027	7° -59‘	20°
R2138.100D-05	Double	100	5	80.00	5.027	7° -59‘	20°
R2138.020F-05	Four	20	5	16.00	10.053	15° -40‘	25°
R2138.030F-05	Four	30	5	24.00	10.053	15° -40‘	25°
R2138.040F-05	Four	40	5	32.00	10.053	15° -40‘	25°
R2138.050F-05	Four	50	5	40.00	10.053	15° -40‘	25°
R2138.060F-05	Four	60	5	48.00	10.053	15° -40‘	25°
R2138.080F-05	Four	80	5	64.00	10.053	15° -40‘	25°
R2138.090F-05	Four	90	5	76.80	10.053	15° -40‘	25°
R2138.100F-05	Four	100	5	80.00	10.053	15° -40‘	25°
R2138.020S-08	Single	20	8	16.00	2.513	4° -0‘	14½°
R2138.030S-08	Single	30	8	24.00	2.513	4° -0‘	14½°
R2138.040S-08	Single	40	8	32.00	2.513	4° -0‘	14½°
R2138.050S-08	Single	50	8	40.00	2.513	4° -0‘	14A°
R2138.060S-08	Single	60	8	48.00	2.513	4° -0‘	14A°
R2138.080S-08	Single	80	8	64.00	2.513	4° -0‘	14A°
R2138.090S-08	Single	90	8	76.80	2.513	4° -0‘	14A°
R2138.100S-08	Single	100	8	80.00	2.513	4° -0‘	14A°
R2138.020D-08	Double	20	8	16.00	5.027	7° -59‘	20°
R2138.030D-08	Double	30	8	24.00	5.027	7° -59‘	20°

0,8 Module Precision Worm Gears
brass

Order No.	Starts	No. of teeth	Bore dia.	Pitch dia. P.D.	Circular pitch	Helix angle	Pressure angle
R2138.040D-08	Double	40	8	32.00	5.027	7° -59‘	20°
R2138.050D-08	Double	50	8	40.00	5.027	7° -59‘	20°
R2138.060D-08	Double	60	8	48.00	5.027	7° -59‘	20°
R2138.080D-08	Double	80	8	64.00	5.027	7° -59‘	20°
R2138.090D-08	Double	90	8	76.80	5.027	7° -59‘	20°
R2138.100D-08	Double	100	8	80.00	5.027	7° -59‘	20°
R2138.020F-08	Four	20	8	16.00	10.053	15° -40‘	25°
R2138.030F-08	Four	30	8	24.00	10.053	15° -40‘	25°
R2138.040F-08	Four	40	8	32.00	10.053	15° -40‘	25°
R2138.050F-08	Four	50	8	40.00	10.053	15° -40‘	25°
R2138.060F-08	Four	60	8	48.00	10.053	15° -40‘	25°
R2138.080F-08	Four	80	8	64.00	10.053	15° -40‘	25°
R2138.090F-08	Four	90	8	76.80	10.053	15° -40‘	25°
R2138.100F-08	Four	100	8	80.00	10.053	15° -40‘	25°

0,8 Module Precision Worms
stainless steel

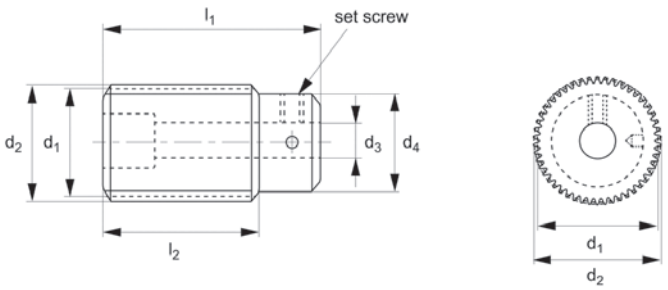
R2140



Material
Stainless steel (DIN 1,4305).

Technical Notes
Quality class DIN 7/AGMA 10.
Right hand.

Order No.	Starts	Lead	Lead angle	Pressure angle
R2140.05S	Single	2.513	4° 0‘	14½°
R2140.05D	Double	5.027	7° 59‘	20°
R2140.04F	Four	10.053	15° 40‘	25°



R2144

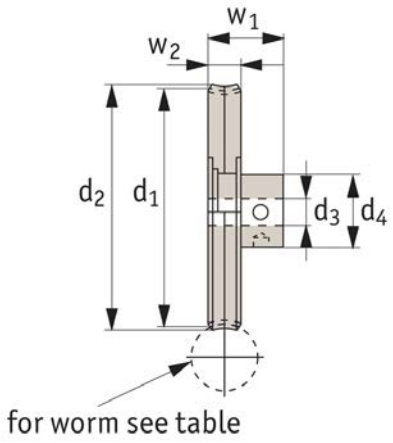
Material
Stainless steel (DIN 1,4305).

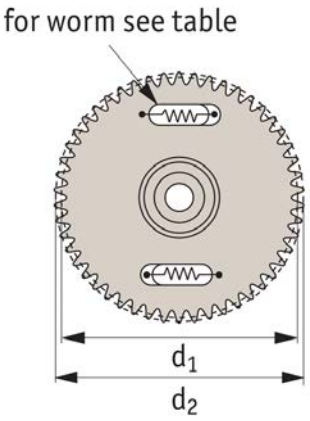
Technical Notes
Quality class DIN 7/AGMA 10.
Right hand.

Order No.	Starts	l_1	l_2	d_1	d_2	d_3 tol. H7	d_4	Lead	Lead angle	Pressure angle
R2144.3S	Single	19	14	9	10	3	8	1.571	3° 10‘	14 1/2°
R2144.3D	Double	19	14	9	10	3	8	3.142	6° 20‘	20°
R2144.3F	Four	19	14	9	10	3	8	6.283	12° 31‘	25°
R2144.5S	Single	19	14	9	10	5	8	1.571	3° 10‘	14 1/2°
R2144.5D	Double	19	14	9	10	5	8	3.142	6° 20‘	20°
R2144.5F	Four	19	14	9	10	5	8	6.283	12° 31‘	25°

0,5 Module Anti-backlash Worm Gears
brass

R2147





Material
Brass.

Technical Notes
Quality class DIN 7/AGMA 10.

Right hand.
Select worm with corresponding number of threads - see part no. R2144.
Also available with clamp style hub.

Tips
Ratio=(No. of teeth/No. of worm threads).
For larger sizes, please see following page.

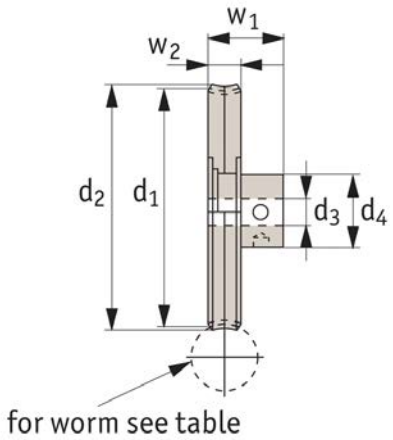
Order No.	Starts	No. of teeth	Bore dia.	Pitch dia. P.D.	Circular pitch	Helix angle	Pressure angle
R2147.040S-05	Single	40	5	20.00	1.571	3° 10‘	14A°
R2147.050S-05	Single	50	5	25.00	1.571	3° 10‘	14A°
R2147.060S-05	Single	60	5	30.00	1.571	3° 10‘	14A°
R2147.070S-05	Single	70	5	35.00	1.571	3° 10‘	14A°
R2147.080S-05	Single	80	5	40.00	1.571	3° 10‘	14A°
R2147.090S-05	Single	90	5	45.00	1.571	3° 10‘	14A°
R2147.100S-05	Single	100	5	50.00	1.571	3° 10‘	14A°
R2147.120S-05	Single	120	5	60.00	1.571	3° 10‘	14A°
R2147.180S-05	Single	180	5	90.00	1.571	3° 10‘	14A°
R2147.040D-05	Double	40	5	20.00	3.142	6° 20‘	20°
R2147.050D-05	Double	50	5	25.00	3.142	6° 20‘	20°
R2147.060D-05	Double	60	5	30.00	3.142	6° 20‘	20°
R2147.120D-05	Double	120	5	60.00	3.142	6° 20‘	20°
R2147.070D-05	Double	70	5	35.00	3.142	6° 20‘	20°
R2147.080D-05	Double	80	5	40.00	3.142	6° 20‘	20°
R2147.090D-05	Double	90	5	45.00	3.142	6° 20‘	20°
R2147.100D-05	Double	100	5	50.00	3.142	6° 20‘	20°
R2147.180D-05	Double	180	5	90.00	3.142	6° 20‘	20°
R2147.040F-05	Four	40	5	20.00	6.283	12° 31‘	25°
R2147.050F-05	Four	50	5	25.00	6.283	12° 31‘	25°
R2147.060F-05	Four	60	5	30.00	6.283	12° 31‘	25°
R2147.070F-05	Four	70	5	35.00	6.283	12° 31‘	25°
R2147.080F-05	Four	80	5	40.00	6.283	12° 31‘	25°
R2147.090F-05	Four	90	5	45.00	6.283	12° 31‘	25°
R2147.100F-05	Four	100	5	50.00	6.283	12° 31‘	25°
R2147.120F-05	Four	120	5	60.00	6.283	12° 31‘	25°
R2147.180F-05	Four	180	5	90.00	6.283	12° 31‘	25°
R2147.040S-08	Single	40	8	20.00	1.571	3° 10‘	14A°
R2147.050S-08	Single	50	8	25.00	1.571	3° 10‘	14A°
R2147.060S-08	Single	60	8	30.00	1.571	3° 10‘	14A°
R2147.070S-08	Single	70	8	35.00	1.571	3° 10‘	14A°
R2147.080S-08	Single	80	8	40.00	1.571	3° 10‘	14A°
R2147.090S-08	Single	90	8	45.00	1.571	3° 10‘	14A°
R2147.100S-08	Single	100	8	50.00	1.571	3° 10‘	14A°

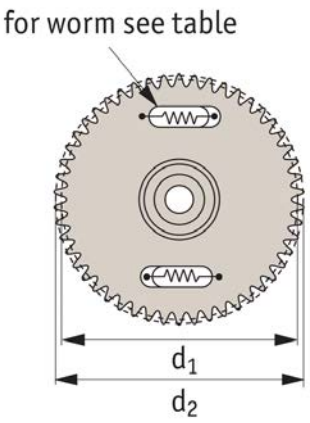
0,5 Module Anti-backlash Worm Gears
brass

Order No.	Starts	No. of teeth	Bore dia.	Pitch dia. P.D.	Circular pitch	Helix angle	Pressure angle
R2147.120S-08	Single	120	8	60.00	1.571	3° 10‘	14A°
R2147.180S-08	Single	180	8	90.00	1.571	3° 10‘	14A°

0,5 Module Anti-backlash Worm Gears
brass

R2147.1





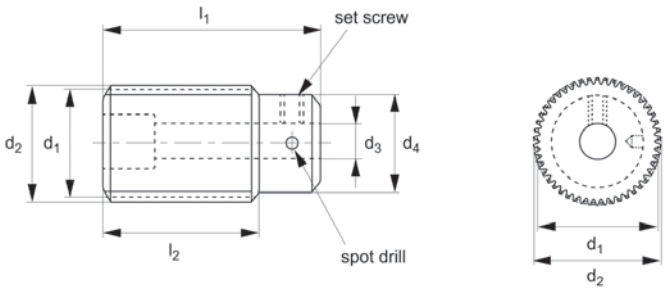
Material
Brass.

Technical Notes
Quality class DIN 7/AGMA 10.

Right hand.
Select worm with corresponding number of threads - see part no. R2144.
Also available with clamp style hub.

Tips
Ratio=(No. of teeth/No. of worm threads).
For smaller sizes, please see previous page.

Order No.	Starts	No. of teeth	Bore dia.	Pitch dia. P.D.	Circular pitch	Helix angle	Pressure angle
R2147.D040-05	Double	40	5	20.00	3.142	6° 20‘	20°
R2147.D050-05	Double	50	5	25.00	3.142	6° 20‘	20°
R2147.D060-05	Double	60	5	30.00	3.142	6° 20‘	20°
R2147.D070-05	Double	70	5	35.00	3.142	6° 20‘	20°
R2147.D080-05	Double	80	5	40.00	3.142	6° 20‘	20°
R2147.D090-05	Double	90	5	45.00	3.142	6° 20‘	20°
R2147.D100-05	Double	100	5	50.00	3.142	6° 20‘	20°
R2147.D120-05	Double	120	5	60.00	3.142	6° 20‘	20°
R2147.D180-05	Double	180	5	90.00	3.142	6° 20‘	20°
R2147.F040-05	Four	40	5	20.00	6.283	12° 31‘	25°
R2147.F050-05	Four	50	5	25.00	6.283	12° 31‘	25°
R2147.F060-05	Four	60	5	30.00	6.283	12° 31‘	25°
R2147.F070-05	Four	70	5	35.00	6.283	12° 31‘	25°
R2147.F080-05	Four	80	5	40.00	6.283	12° 31‘	25°
R2147.F090-05	Four	90	5	45.00	6.283	12° 31‘	25°
R2147.F100-05	Four	100	5	50.00	6.283	12° 31‘	25°
R2147.F120-05	Four	120	5	60.00	6.283	12° 31‘	25°
R2147.F180-05	Four	180	5	90.00	6.283	12° 31‘	25°



R2149

Material
Stainless steel (AISI 303, 1,4305).

Technical Notes
Quality class DIN 7/AGMA 10.

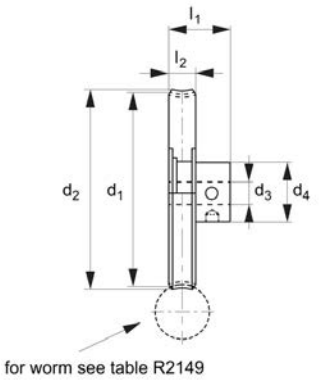
Right hand.

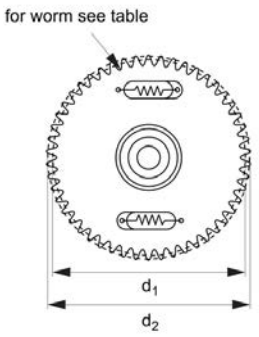
Tips
Ratio = No. of teeth/No. of worm threads.

Order No.	l_1	l_2	d_1	d_2 +0.00|-0.11	d_3 tol. H7	d_4	Thread	Lead	Lead angle	Pressure angle
R2149.S03	25	19	13.2	14	3	8	single	1.257	1° 44‘	14-1/2°
R2149.D03	25	19	13.2	14	3	8	double	2.513	3° 28‘	14-1/2°
R2149.F03	25	19	13.2	14	3	8	four	5.027	6° 54‘	14-1/2°
R2149.S05	25	19	13.2	14	5	10	single	1.257	1° 44‘	14-1/2°
R2149.D05	25	19	13.2	14	5	10	double	2.513	3° 28‘	14-1/2°
R2149.F05	25	19	13.2	14	5	10	four	5.027	6° 54‘	14-1/2°
R2149.S07	25	19	13.2	14	7	11	single	1.257	1° 44‘	14-1/2°
R2149.D07	25	19	13.2	14	7	11	double	2.513	3° 28‘	14-1/2°
R2149.F07	25	19	13.2	14	7	11	four	5.027	6° 54‘	14-1/2°

0,4 Module Anti-backlash Worm Gears
brass

R2150





Material
Gears: Brass
Hubs: Stainless steel (DIN 1,4305).

Technical Notes
Quality class DIN 7/AGMA 10.

Right hand.
Select worm with corresponding number of threads - see part no. R2144.
Also available with clamp style hub.

Tips
Ratio=(No. of teeth/No. of worm threads).
For larger sizes, please see following page.

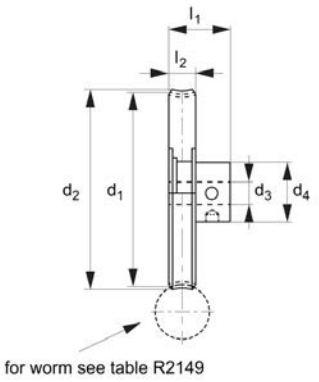
Order No.	Starts	No. of teeth	Bore dia.	Pitch dia. P.D.	Circular pitch	Helix angle	Pressure angle
R2150.S050-05	Single	50	5	20.00	1.257	1° 44‘	14 1/2°
R2150.S060-05	Single	60	5	24.00	1.257	1° 44‘	14 1/2°
R2150.S070-05	Single	70	5	28.00	1.257	1° 44‘	14 1/2°
R2150.S080-05	Single	80	5	32.00	1.257	1° 44‘	14 1/2°
R2150.S090-05	Single	90	5	36.00	1.257	1° 44‘	14 1/2°
R2150.D050-05	Double	50	5	20.00	2.513	3° 28‘	14 1/2°
R2150.F050-05	Four	50	5	20.00	5.027	6° 54‘	14 1/2°
R2150.S100-05	Single	100	5	40.00	1.257	1° 44‘	14 1/2°
R2150.S110-05	Single	110	5	44.00	1.257	1° 44‘	14 1/2°
R2150.S120-05	Single	120	5	48.00	1.257	1° 44‘	14 1/2°
R2150.S180-05	Single	180	5	72.00	1.257	1° 44‘	14 1/2°
R2150.D060-05	Double	60	5	24.00	2.513	3° 28‘	14 1/2°
R2150.D070-05	Double	70	5	28.00	2.513	3° 28‘	14 1/2°
R2150.D080-05	Double	80	5	32.00	2.513	3° 28‘	14 1/2°
R2150.D090-05	Double	90	5	36.00	2.513	3° 28‘	14 1/2°
R2150.D100-05	Double	100	5	40.00	2.513	3° 28‘	14 1/2°
R2150.D110-05	Double	110	5	44.00	2.513	3° 28‘	14 1/2°
R2150.D120-05	Double	120	5	48.00	2.513	3° 28‘	14 1/2°
R2150.D180-05	Double	180	5	72.00	2.513	3° 28‘	14 1/2°
R2150.F060-05	Four	60	5	24.00	5.027	6° 54‘	14 1/2°
R2150.F070-05	Four	70	5	28.00	5.027	6° 54‘	14 1/2°
R2150.F080-05	Four	80	5	32.00	5.027	6° 54‘	14 1/2°
R2150.F090-05	Four	90	5	36.00	5.027	6° 54‘	14 1/2°
R2150.F100-05	Four	100	5	40.00	5.027	6° 54‘	14 1/2°
R2150.F110-05	Four	110	5	44.00	5.027	6° 54‘	14 1/2°
R2150.F120-05	Four	120	5	48.00	5.027	6° 54‘	14 1/2°
R2150.F180-05	Four	180	5	72.00	5.027	6° 54‘	14 1/2°
R2150.S050-08	Single	50	8	20.00	1.257	1° 44‘	14 1/2°
R2150.S060-08	Single	60	8	24.00	1.257	1° 44‘	14 1/2°
R2150.S070-08	Single	70	8	28.00	1.257	1° 44‘	14 1/2°
R2150.S080-08	Single	80	8	32.00	1.257	1° 44‘	14 1/2°
R2150.S090-08	Single	90	8	36.00	1.257	1° 44‘	14 1/2°
R2150.S100-08	Single	100	8	40.00	1.257	1° 44‘	14 1/2°

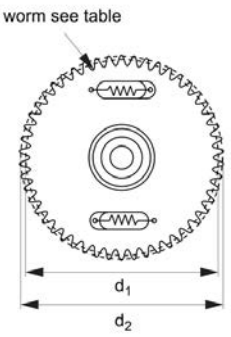
0,4 Module Anti-backlash Worm Gears
brass

Order No.	Starts	No. of teeth	Bore dia.	Pitch dia. P.D.	Circular pitch	Helix angle	Pressure angle
R2150.S110-08	Single	110	8	44.00	1.257	1° 44‘	14 1/2°
R2150.S120-08	Single	120	8	48.00	1.257	1° 44‘	14 1/2°
R2150.S180-08	Single	180	8	72.00	1.257	1° 44‘	14 1/2°

0,4 Module Anti-backlash Worm Gears
brass

R2150.1





Material
Gears: Brass
Hubs: Stainless steel (DIN 1,4305).

Technical Notes
Quality class DIN 7/AGMA 10.

Right hand.
Select worm with corresponding number of threads - see part no. R2144.
Also available with clamp style hub.

Tips
Ratio=(No. of teeth/No. of worm threads).
For smaller sizes, please see previous page.

Order No.	Starts	No. of teeth	Bore dia.	Pitch dia. P.D.	Circular pitch	Helix angle	Pressure angle
R2150.D050-08	Double	50	8	20.00	2.513	3° 28‘	14 1/2°
R2150.D060-08	Double	60	8	24.00	2.513	3° 28‘	14 1/2°
R2150.D070-08	Double	70	8	28.00	2.513	3° 28‘	14 1/2°
R2150.D080-08	Double	80	8	32.00	2.513	3° 28‘	14 1/2°
R2150.D090-08	Double	90	8	36.00	2.513	3° 28‘	14 1/2°
R2150.D100-08	Double	100	8	40.00	2.513	3° 28‘	14 1/2°
R2150.D110-08	Double	110	8	44.00	2.513	3° 28‘	14 1/2°
R2150.D120-08	Double	120	8	48.00	2.513	3° 28‘	14 1/2°
R2150.D180-08	Double	180	8	72.00	2.513	3° 28‘	14 1/2°
R2150.F050-08	Four	50	8	20.00	5.027	6° 54‘	14 1/2°
R2150.F060-08	Four	60	8	24.00	5.027	6° 54‘	14 1/2°
R2150.F070-08	Four	70	8	28.00	5.027	6° 54‘	14 1/2°
R2150.F080-08	Four	80	8	32.00	5.027	6° 54‘	14 1/2°
R2150.F090-08	Four	90	8	36.00	5.027	6° 54‘	14 1/2°
R2150.F100-08	Four	100	8	40.00	5.027	6° 54‘	14 1/2°
R2150.F110-08	Four	110	8	44.00	5.027	6° 54‘	14 1/2°
R2150.F120-08	Four	120	8	48.00	5.027	6° 54‘	14 1/2°
R2150.F180-08	Four	180	8	72.00	5.027	6° 54‘	14 1/2°