

PITCH OF LEADSCREW FOR 8020/25/30

US SYSTEM										INCH		
RESOLUTION	0.0001			0.0002			0.0005			0.001		
ENCODER \ MULTIPLIER	1*	2	4	1*	2	4	1*	2	4	1*	2	4
50	0.005	0.01	0.02	0.01	0.02	0.04	0.025	0.05	0.1	0.05	0.1	0.2
100	0.01	0.02	0.04	0.02	0.04	0.08	0.05	0.1	0.2	0.1	0.2	0.4
200	0.02	0.04	0.08	0.04	0.08	0.16	0.1	0.2	0.4	0.2	0.4	0.8
250	0.025	0.05	0.1	0.05	0.1	0.2	0.125	0.25	0.5	0.25	0.5	1
400	0.04	0.08	0.16	0.08	0.16	0.32	0.2	0.4	0.8	0.4	0.8	1.6
500	0.05	0.1	0.2	0.1	0.2	0.4	0.25	0.5	1	0.5	1	2
600	0.06	0.12	0.24	0.12	0.24	0.48	0.3	0.6	1.2	0.6	1.2	2.4
635	0.0635	0.127	0.254	0.127	0.254	0.508	0.3175	0.635	1.27	0.635	1.27	2.54
1000	0.1	0.2	0.4	0.2	0.4	0.8	0.5	1	2	1	2	4
1250	0.125	0.25	0.5	0.25	0.5	1	0.625	1.25	2.5	1.25	2.5	5
1270	0.127	0.254	0.508	0.254	0.508	1.016	0.635	1.27	2.54	1.27	2.54	5.08
1500	0.15	0.3	0.6	0.3	0.6	1.2	0.75	1.5	3	1.5	3	6
2000	0.2	0.4	0.8	0.4	0.8	1.6	1	2	4	2	4	8
2500	0.25	0.5	1	0.5	1	2	1.25	2.5	5	2.5	5	10
3000	0.3	0.6	1.2	0.6	1.2	2.4	1.5	3	6	3	6	12
5000	0.5	1	2	1	2	4	2.5	5	10	5	10	20
3600	1.8	3.6	7.2	3.6	7.2	14.4	9	18	36	18	36	72
4320	2.16	4.32	8.64	4.32	8.64	17.28	10.8	21.6	43.2	21.6	43.2	86.4
PULSE/REV				PITCH OF LEADSCREW IN INCHES								

BINARY ENCODER 1024(2048) IS TREATED AS 1000(2000) OR 1250(2500)

METRIC SYSTEM										MM		
RESOLUTION	0.001			0.002			0.005			0.01		
ENCODER \ MULTIPLIER	1*	2	4	1*	2	4	1*	2	4	1*	2	4
50	0.05	0.1	0.2	0.1	0.2	0.4	0.25	0.5	1	0.5	1	2
100	0.1	0.2	0.4	0.2	0.4	0.8	0.5	1	2	1	2	4
200	0.2	0.4	0.8	0.4	0.8	1.6	1	2	4	2	4	8
250	0.25	0.5	1	0.5	1	2	1.25	2.5	5	2.5	5	10
400	0.4	0.8	1.6	0.8	1.6	3.2	2	4	8	4	8	16
500	0.5	1	2	1	2	4	2.5	5	10	5	10	20
600	0.6	1.2	2.4	1.2	2.4	4.8	3	6	12	6	12	24
635	0.635	1.27	2.54	1.27	2.54	5.08	3.175	6.35	12.7	6.35	12.7	25.4
1000	1	2	4	2	4	8	5	10	20	10	20	40
1250	1.25	2.5	5	2.5	5	10	6.25	12.5	25	12.5	25	50
1270	1.27	2.54	5.08	2.54	5.08	10.16	6.35	12.7	25.4	12.7	25.4	50.8
1500	1.5	3	6	3	6	12	7.5	15	30	15	30	60
2000	2	4	8	4	8	16	10	20	40	20	40	80
2500	2.5	5	10	5	10	20	12.5	25	50	25	50	100
3000	3	6	12	6	12	24	15	30	60	30	60	120
5000	5	10	20	10	20	40	25	50	100	50	100	200
3600	18	36	72	36	72	144	90	180	360	180	360	720
4320	21.6	43.2	86.4	43.2	86.4	172.8	108	216	432	216	432	864
PULSE/REV				PITCH OF LEADSCREW IN MM								

FORMULAS:

PITCH = P.ENCODER * MULTIPLIER * RESOLUTION
 P.ENCODER = PITCH / (MULTIPLIER * RESOLUTION)
 RESOLUTION = PITCH / (MULTIPLIER * P.ENCODER)