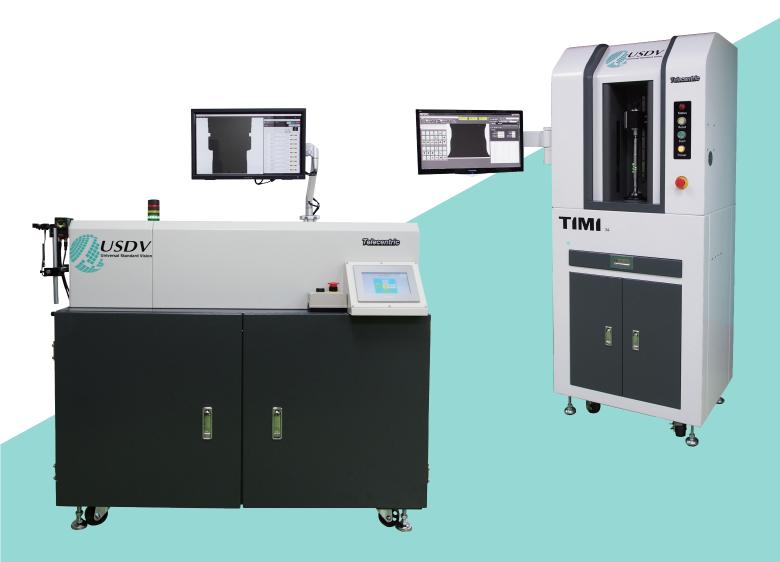


TIMI Intelligent Shaft Dimensional Inspection System

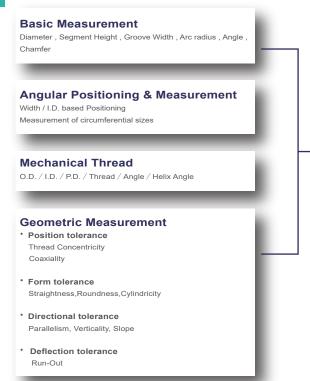
Precise+Fast+Effective

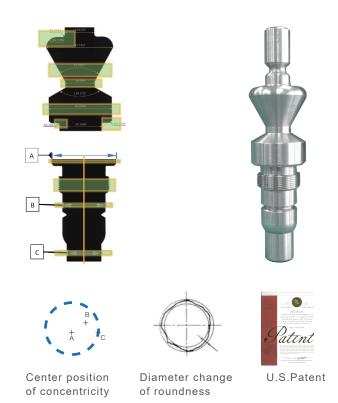
Rapid full-size measurement during the manufacturing process Measurement data streaming enterprise ERP/MES system



- ◆Micron-level measurement Precision.
- ◆User-friendly interface. Simple Automatic Programing.
- Automatically measure full sizes with a large field of view.
- ◆Rotational position and measure with speed and precision
- ◆Integrated measuring system with multiple gauging functions.
- ◆Transcription-free with TIMI measurement database system.
- ◆The TIMI system is compatible with any ERP system.
- ◆Machine with a robot arm to automatically load and unload shafts.

Precision and Versatile Measurement





Full Dimension Measurement

Measure 40+ items in 30 seconds, such as diameter, segment difference, angle, arc radius, chamfer and machanical thread.

Runout Measurement

Specify any position C, rotate and scan it for one circle, and runout can be measured in as fast as 3 seconds with respect to A,B axis.



Concentricity Measurement

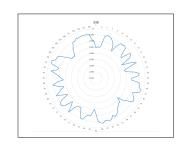
TIMI can automatically detect the center coordinates of any two cross-sections of a shaft and calculate the axial diviation.

Roundness Measurement

TIMI system can rotate the shaft to measure the roundness without centering the axis, and the measuring resolution reaches 0.1µm.



Center Coordinates and Pitch Diameter



Roundness



Management Database: Complete production history / quality assurance

◆Access data analysis of measurements at any point during the process, and export it for process capability analysis and fault tracing.

MDB Database Application Software (Standard)



Manually enter product inspection information.

	-	8	0	D	E	F	6	н	1	3	K	L	M	N	0	9	Q	8
þ						2.長度-1	3.挥径-1	4.長度-2	5.存径-2	6.長度-3	7_888-1	1.角度	9_桿徑-3	10.長度-4				
	_			上限	12.1	3.12	6.46	11.08	10.77	17.85	0.35	40	7.1	37.3				
3				下限	11.95	2.72	6.22	10.82	10.69	17.50	0.25	34	6.0	37.08				
4				標準值	12,025	2,92	6.35	11	10.75	17.7	0.3	35	6.5	37.2				
5				最大值	12.0342	2.8423	6.3349	10.9678	10.7198	17.9076	0.3265	36.7551	6.9029	37.1738				
6				層小值	12,0301	2,8329	6,3301	10.9126	10,7149	17,7953	0.2834	36,471	6,8990	37.1574				
				平均值	12.0334	2.8339	6.3341	10.9484	10.7178	17.8055	0.3005	36,5562	6.9011	37.1663				
0				Bance	0.0041	0.0114	0.0046	0.0552	0.0049	0.0123	0.0433	0.2041	0.0031	0.0164				
2				標準数	0.0005	0.0013	0.0006	0.0062	0.0007	0.0021	0.0067	0.0466	0.0003	0.0021				
10		BM	8952	植物技學	1 半球頭	2 長度-1	3 桿徑-1	4 長度-2	5 桿径-2	6 長度-3	7.8(0-1	8 角度	9 桿徑-3	10 長度-4				
1	520			LOK	12.0334	2.8337	6.3343	10.9463	10.7175	17,9050	0.2999	35,5600	6.9011					
12	511	2021/12/16	13:38:26	6 OK	12,0333	2.8344	6.3342	10.5527	10,7176	17,8072	0.2563	36.5755	6.5011	37.1679				
13	512	2021/12/16	13:38:41	LOK	12.0334	2.8342	6.3343	10.9531	10.7176	17.907	0.2968	36.5821	6.9011	37.1684				
14	513	2021/12/16		5 OK	12.0334	2.8342	6.3341	10.55	10.7175	17,8068		36,5584	6.5011					
15	514	2021/12/16	13:39:11	LOK	12.0333	2.8345	6.3342	10.9422	10.718	17.8065	0.2971	36,5891	6.9011	37.1664				
16	515	2021/12/16	13:39:26	SOK	12.0332	2.8344	6.3341	10.9555	10.7175	17.0065	0.3036	36,5590	6.9011	37.1679				
	516	2021/12/16	13:39:41	LOK	12,0334	2.8341	6.3342	10.9492	10,7176	17,8065	0.3035	36.5421	6.9011	37.1666				
8.	517	2021/12/16	13:39:50	SOK	12.0335	2.8342	6.3343	10.9452	10.7176	17.906	0.2989	36.5767	6.9011	37.1668				
2	515	2021/12/16	13:40:13	LOK	12,0334	2,8345	6.3342	10.9456	10,7178	17,8065	0.2566	36,5411	6.5011	37.1667				
20	519	2021/12/16	13:40:20	FOK	12.0336	2.834	6.3341	10.9526	10.7178	17.8067	0.2972	36.568	6.901	37.1667				
21	520	2021/12/16	13:40:43	LOK	12,0334	2,8335	6,3343	10.9464	10.715	17,9057	0.2991	35,5744	6.9011	37,1664				
22	521	2021/12/16	13:40:56	SOK	12.0334	2.8339	6.3343	10.9464	10.7177	17.8057	0.2589	35.50	6.9011	37.1663				
22	522	2021/12/16	13:41:13	LOK	12.0134	2.8346	6.3344	10.946	10.7186	17,9055	0.2971	36,555	6.9011	37.166				
34	523	2021/12/16	13:41:26	SOK	12,0334	2.8334	6.3342	10.9494	10,7179	17,8057	0.3042	36,5646	6.5013	37.1661				
25	524	2021/12/16	13:41:41	LOK	12.0334	2.8343	6.3341	10.9493	10.7177	17.8056	0.3007	36.5778	6.9011	37.1659				
35	525	2021/12/16	13:41:50	5 OK	12,0336	2,8341	6.3341	10.9499	10,7178	17,8063	0.2992	36,603	6,5013	37,167				
27	526	2021/12/16	13:42:12	ZOK	12.0334	2.8341	6.3342	10.9498	10.7178	17.8062	0.3042	36.5788	6.5012	37.167				
20	527	2021/12/16	13:42:23	Z OK	12.0134	2.8341	6.3342	10.9465	10.7177	17.9057	0.2991	36,5814	6.9011					
3	528	2021/12/16			12.0335	2.8338	6.334	10.9458	10.718	17.8059	0.3054		6.5011	37.1678				
90	529	2021/12/16	13:42:57	ZOK	12.0336	2.8335	6.3343	10.9497	10.7179	17.8056	0.3	36,5800	6.9011	37.1665				
31	530	2021/12/16		2 OK	12.0334	2,834	6.3343	10.9488	10.7175	17,8048	0.3	36,5528	6.503					
32	531	2021/12/16	13:43:27	ZOK	12.0334	2.8337	6.334	10.9496	10.7178	17.8055	0.3029	36.5270	6.9011	37.1676				
13	512	2021/12/16	13:43:42	2 OK	12.0333	2.8335	6.3342	10.9449	10.7176	17.0055	0.2968	35,5450	6.9011	37.1676				
24	533	2021/12/16	18485	YOU	12.0334	2.8342	6.3343	10.9466	10.7185	17.8056	0.3022	36.5156	6.9013	37.1665				

Collate measuring data. Browse data for basic analysis.



Measuring data is saved in real-time.



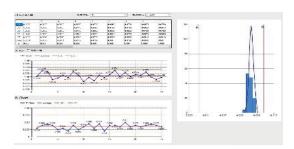
Print inspection checklist and save as a PDF report.

Data can be exported in Excel format.

MDB database Application Software (Optional)



Link ERP/MES for import or export of prodcution/quality control information.



Query historical measurement data and analysis. (e.g. X bar, R chart, Cpk)



Hybrid data can be imported. (including data from other gauges)



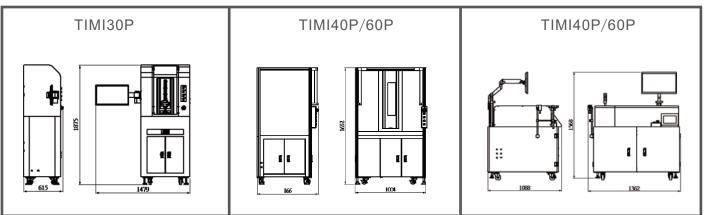
Print and export inspection checklist as well as create your own.



Spec Model	TIMI30P	TIMI40P	TIMI60P					
Measuring Diameter (D)	ø30mm	ø40mm	ø60mm					
Measuring Length(Z)	300mm 400mm							
Rotatable range (R)	360°							
Repeatability (D)[#1]	±0.2µm	±0.2μm ±0.2μm						
Uncertainty (D)[#2]	±(2+D[mm]/100)µm							
Image Resolution	14µm	19µm	25µm					
Minimum display unit	0.1µm							
Rotational Resolution (R)	≦0.1°							
Clamping Method	Center Tips							
Central Processing Unit (CPU)	Intel Core i5 or plus							
Memory Capacity	8GB RAM, 128GB SSD, 500GB HDD							
MonitorMonitor	22 " LCD							
Operating System	Windows10							
Weight (without computer)	300Kgs	350~450Kgs	350~450Kgs					
Power Supply	110~240V,50~60Hz,10A (single or three phase)							
Operating Ambient Temperature	0°~45°C							
Operating Ambient Humidity	≦ 80 %							

 $^{\#1: \} Repeatability \ is \ calculated \ by \ measuring \ the \ fixed \ position \ of \ a \ standard \ gauge \ repeatedly \ without \ the \ connection \ of \ the \ motion \ mechanism \ and \ estimating \ the \ statistical \ value \ \pm 2\sigma.$

Machine Size



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 $\hbox{E-mail:service@usdvision.com}$





^{#2}: The measurement uncertainty is calculated by arbitrarily measuring a standard gauge without the connection of the linear motion mechanism and estimating the statistical value $\pm 2\sigma$.