

Advanced Coupling Train Alignment Accurate Results in Less Time



Innovative solutions enable AREVA to match your specific pump and motor needs.

Features

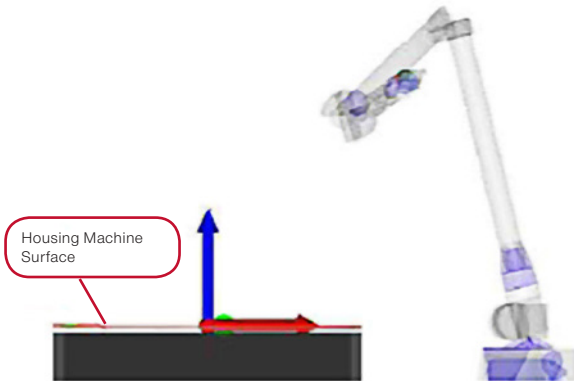
- Portable coordinate measurement machine
- One setup to measure entire pump/motor coupling train
- Alignment data presented in graphical format

Benefits

- Less time required for alignment and coupling train runout measurements
- Improved accuracy
- Reduced radiation exposure
- Eliminates complicated and error-prone mechanical measurements
- Eliminates the use of cumbersome measurement fixtures and indicators

More Innovative Outage Solutions

- RCP pump and motor shop services
- Engineering and analysis
- Chemistry lab services
- PWR & BWR refueling services
- Safety-related machining and coatings
- Outage management and OCC support



All Vectors Summary: Vector Group				
3A2 RCP Alignment Data As-Built: Angular Face to Face				
Statistic	dX	dY	dZ	Mag
Min	-0.000	-0.000	-0.001	-0.000
Max	0.000	-0.000	0.000	0.001
Average	0.000	-0.000	-0.000	0.000
StdDev from Avg	0.000	0.000	0.000	0.000
StdDev from Zero	0.000	0.000	0.000	0.000
RMS	0.000	0.000	0.000	0.000
Tol Range				-1.000
In Tol				4 (100.0%)
Out Tol				0 (0.0%)
Count	4			

Vector Group										
3A2 RCP Alignment Data As-Built: Angular Face to Face										
Name	Begin			End			Delta			Mag
	X1	Y1	Z1	X2	Y2	Z2	dX	dY	dZ	
Motor RIM13 on object	-9.229	1.164	42.637	-9.229	1.164	42.637	-0.000	-0.000	0.000	-0.000
Motor RIM1 on object	0.671	9.274	42.637	0.671	9.274	42.637	0.000	-0.000	0.000	-0.000
Motor RIM55 on object	9.294	-0.314	42.638	9.294	-0.314	42.637	0.000	-0.000	-0.001	0.001
Motor RIM9 on object	-0.880	-9.264	42.637	-0.880	-9.264	42.637	0.000	-0.000	-0.000	0.000

AREVA field technicians collected data during a recent plant outage. The data compared the time required to obtain measurements using conventional methods against the time required using advanced measurement techniques. Advanced measurement techniques show a clear time and dose savings over conventional methods.

Pump-to-Motor Shaft Alignment Measurements Specification				
	Time	Manpower	Total hours	Total dose (Bases on 10 mR/h)
Advanced Methods	2 hrs.	2	4	40 mR
Conventional Methods	6 hrs.	4	24	240 mR

Coupling Train Measurements				
	Time	Manpower	Total hours	Total dose (Bases on 10 mR/h)
Advanced Methods	30 mins.	2	1	10 mR
Conventional Methods	4 hrs.	4	16	160 mR

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