GELEN

HORIZONTAL SCREEN: MAINTENANCE SCHEDULE & CHECKLIST

📊 The Impact of Proper Maintenance

- **Downtime Cause:** Bearing failures account for 60% of unscheduled downtime.
- **Life Extension:** Proper maintenance yields a 3x life extension.
- **Financial Impact:** The average cost of downtime is $5K-15K per hour of lost capacity.

⏱️ Maintenance Schedule

Daily Checks (10 Minutes)

- ☐ Visual bolt inspection across frame
- ☐ Listen for unusual bearing noise
- ☐ Verify amplitude symmetry all four corners
- ☐ Check springs for visible cracks or deformation
- ☐ Inspect mesh for damage or severe pegging
- ☐ Monitor motor temperature (Touch-check or use IR thermometer)

Weekly Maintenance (30 Minutes)

- ☐ Grease bearings (Typically 3-5 nipples per shaft)
- ☐ Check belt tension
- ☐ Clean drainage channels to prevent water backup
- ☐ Inspect spray nozzles for clogs
- ☐ Verify all electrical connections
- ☐ Record operating hours in maintenance log

Monthly/Quarterly Tasks

- ☐ Shaft alignment check
- ☐ Detailed amplitude & frequency measurement
- ☐ Structural fastener torque confirmation
- ☐ Gearbox oil analysis / replacement
- ☐ Motor vibration analysis
- ☐ Screen media wear assessment & thickness measurement

⚠️ Component Replacement Guidelines

Bearing Replacement Indicators

Expected Bearing Life: 6,000-12,000 hours with proper lubrication.

SYMPTOM	ACTION REQUIRED	URGENCY
Temperature >90°C	Plan replacement soon	MONITOR
Rising noise level	Investigate immediately	URGENT
Metallic debris in grease	Immediate replacement	CRITICAL
Vibration increase > 20%	Schedule replacement	HIGH

Screen Media Replacement Guidelines

MATERIAL	MESH TYPE	TYPICAL LIFE
Limestone	Woven wire	4-8 weeks
Granite	Polyurethane	8-12 weeks
Wet sand	Rubber	6-10 weeks
Abrasive ore	Ceramic-lined	3-6 weeks

📋 Maintenance Log

DATE	TECHNICIAN	TASK PERFORMED	HOURS	NOTES/PARTS USED