

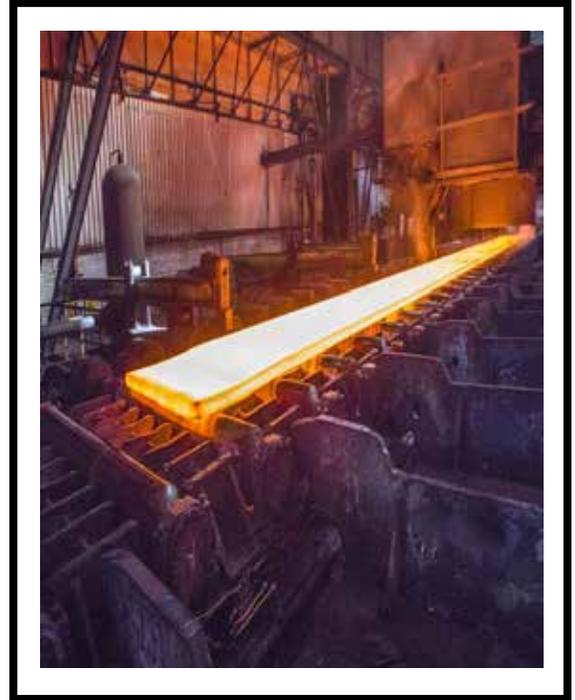
UPGRADE TO LOVEJOY® QUICK FLEX® LEADS TO MAJOR SAVINGS

CHALLENGE ▼

The roller tables in a steel manufacturing plant in Sweden required regular scheduled downtime for inspecting gear couplings and preventing unexpected failures. Each roller table consisted of eight driven rollers, with a coupling positioned between the gearbox and roller. Due to the need for frequent lubrication, gear couplings were continuously incurring maintenance costs, including labor for inspection, replacing, or replenishing the lubricant, along with the expense of the lubricant itself. Downtime due to maintenance was costing them €80,000 per hour in production loss.

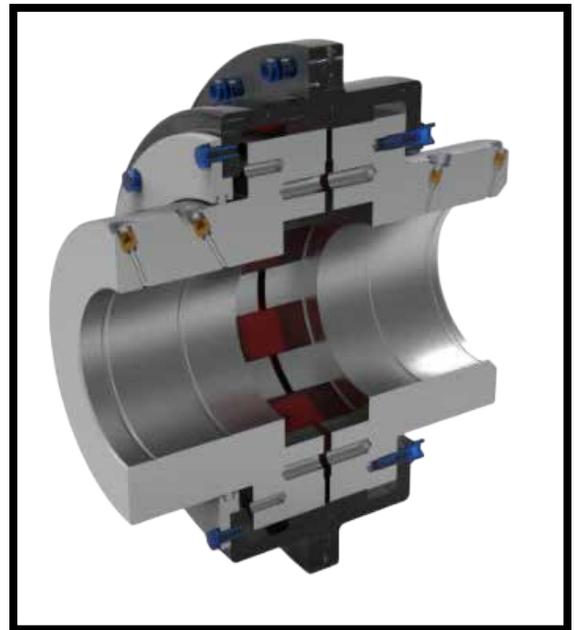
LOVEJOY SOLUTION ▼

Lovejoy identified the application requirements and responded to the steel manufacturer’s request by replacing the gear coupling with a highly modified QUICK FLEX (size QF1890) featuring hubs designed with two grooves and connecting holes, allowing the hub to be expanded using oil pressure to facilitate easier dismounting. Specially designed sealed covers were also incorporated to prevent aggressive scale from entering the coupling and potentially causing premature wear of the insert, with careful consideration given to safety, environmental impact, and maintenance efficiency. This resulted in significant cost savings for the manufacturer by eliminating the need for the scheduled downtime experienced earlier.



RESULTS THAT MATTER ▼

	COST	SAVINGS
DOWNTIME GEAR	8 HRS X (€80K/HR) REPLACEMENTS = €640k	€640,000
DOWNTIME QUICK FLEX	No additional maintenance, checks implemented during existing downtime	
SAFETY STOCK GEAR	Two gear coupling = €8,000 Stocking fee = 5% = €400 Total stocking cost = €8,400	€6,720
SAFETY STOCK QUICK FLEX	Two QF inserts = €1,600 Stocking fee = 5% = €80 Total stocking cost = €1,680	
TOTAL SAVINGS		€646,720



The Lovejoy team applies their knowhow to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets highperformance mechanical components, including couplings, rubber suspension, hydraulic components, and related mechanical power transmission products.