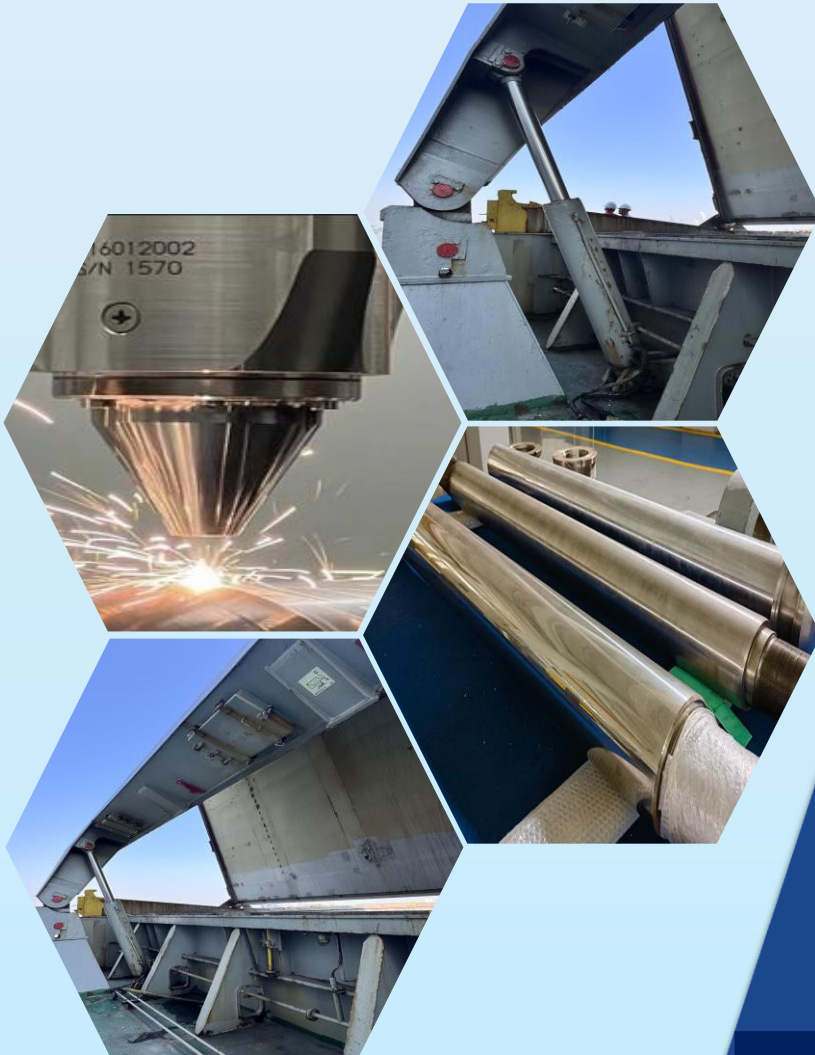




Tecway Industrial Europe GmbH



**Smart
Hatch Covers
Hydraulic Cylinder
Upgrade Solutions**



Technology Patent



Problems

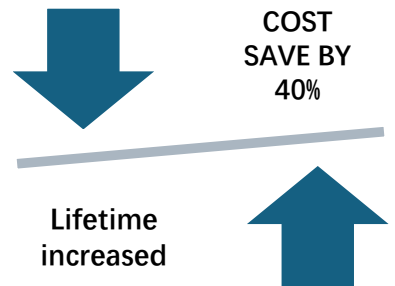
1. Thin, non-durable cylinder Chrome plating
2. Thread corrosion and seizure
3. Corroded guide sleeve groove
4. Brittle cast-iron guide sleeve
5. Seal failure in extreme climates
6. Piston rod damage during disassembly
7. Maintenance difficulties

Solutions

1. Laser alloy cladding
2. Add thread sealing groove
3. Stainless-steel liner insert
4. Upgrade to forged steel
5. Use advanced sealing material
6. Improved fixing structure
7. Specialized maintenance tools



Components	Before Upgrade (Damage Rate)	After Upgrade (Damage Rate)
Guide Sleeve Repair	10%	1%
Piston and Piston Rod	30%	5%
Bearing/Ear Plate	100%	5%



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Standard	Cylinder Model No.
HCZZ001-2022	CYGc-G160/100x550
	CYGc-G220/140x1370
	CYGc-G225/140x1370
	CYGc-H225/160x1380
	CYGc-H225/160x1420
	CYGc-H225/160x1450
	CYGc-G250/160x1360
	CYGc-H250/160x1450
	CYGc-H280/180x1360