



Coperion Service 450 Partners Secure your Future

Chanakan Wasinchatchawan, Sales Manager, Service (Aftermarket PM)
Coperion SEA

Coperion South East Asia (Coperion SEA)



New Coperion office in Rayong Thailand (01-01-2023)

Spare parts, site service and inhouse repairs for:

- ✓ Compounding & extrusion
- ✓ Material Handling
- ✓ Ktron Feeders



>> Additional information

October 1, 2023, **all service** activities from Coperion Singapore were stopped

Sales activities for new equipment continue from Coperion Singapore

CSEA Spare Parts service

CSEA has direct access to the Coperion global spare parts stock via SAP, Navision & IFS.
Qualified local staff available for quotations and technical support

Display material BOM: Item: All data

Reference items Subitems Long Text

Material: 20402807 New Barrel, closed WPR 29
Plant: 0001 Coperion GmbH
Alternative BOM: 1
Usage: 2 Design Engineering

Basic Data Status/Lng Text Administr. Document Assgmt

BOM item

Item Number: 0001
Component: 20402801 Screw barrel, closed
Item Category: Stock item
Item ID: 00000001
Sort String:
☐ Sub-item ID

Coperion SEA Ltd - Microsoft Dynamics NAV Classic - [IPS00828 A4-11: Spare parts for ZSK380, 20537705, 64061018 - Quote Logistics View]

Blind out...	Re...	JSP Code	S1	S2	S3	S4	S5	Type	No.	Calculation	TYM Code	Description	Additional Description
		40436	10					Assembly ...	9CWP	MATERIAL		Spare parts for ZSK380, 20537705, 64061018	
		40437	10	10				Item	1000300/20404800	MATL. IC		Cylinder double acting	50990-1524487
		40438	20					Assembly ...	9CWP	MATERIAL		Additional spare part ZSK380, 20537705, 64...	
		42980	20	10				Item	1000300/20404326	MATL. IC		Plug	50990-1228-08
		42981	20	20				Item	1000300/222009143	MATL. IC		Shaft	80502-3613-02
		42982	20	30				Item	1000300/20418222	MATL. IC		Throttle	50990-1228-16
		42983	20	40				Item	1000300/20418221	MATL. IC		Bushing	50990-1228-18
		42984	20	50				Item	1000300/20418220	MATL. IC		Bushing	50990-1228-19
		42985	20	60				Item	1000300/20418219	MATL. IC		Bushing	50990-1228-20
		42986	20	70				Item	1000300/20418218	MATL. IC		Bushing	50990-1228-21
		42987	20	80				Item	1000300/20033920	MATL. IC		Bushing	50990-639-22
		42988	20	90				Item	1000300/20033921	MATL. IC		Flange	50990-639-23
		42989	20	100				Item	1000300/20033922	MATL. IC		washer	50990-639-24
		42990	20	110				Item	1000300/10000328	MATL. IC		Cheese head screw DIN 912 - M16X50	2142131072
		42991	20	120				Item	1000300/10015967	MATL. IC		Packing ring	1652115032
		42992	20	130				Item	1000300/15004861	MATL. IC		Spiral sealing ring SPIROFLEX SPZ 1 NG	2490002392
		42993	20	140				Item	1000300/15095708	MATL. IC		Sealing disc	
		42994	20	150				Item	1000300/15082415	MATL. IC		Sealing set for cylinder double acting	

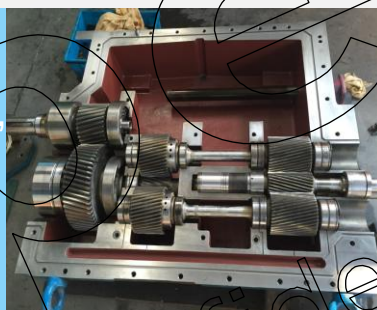
Sort by Quantities

On Hand Qty	In Transit Qty
9 PCS	0 PCS
Available Qty	Available Qty
9 PCS	9 PCS

CSEA repair at customer site and In-house

We provide standardized and highly customized service packages for machines and plants. Our maintenance work secures your plant reliability and checks that resources are being deployed efficiently.

Overhaul of components, gearboxes, die plates, knife rotors, barrels, controls and weighing technology



Stack-out services (screw exchange)



Preventive maintenance programs



Calibration, mechanical & electrical repair





Service agreements

Customer benefit

► **Full-Service Agreement**
Highest efficiency and optimal availability of machines due to inspection and maintenance service complete from one source

► **Service Agreement**
Inspection and preventive maintenance individual customized to the customers requirements

► **Inspection Agreement**
Regular inspections of machines and plants

Scope of service

Service Agreement

- Start with an inspection to find out the actual status & condition
- Based on the inspection report, which will be shared by our engineer with customer and Service team, we will decide, if further steps (maintenance or modernization) are recommended or if the Extruder is in a good condition
- **+60 systems** under contract

Benefits for the customer:

- ✓ Transparent control of all costs (Customer pays only, what has been spent!)
- ✓ Extension of lifetime
- ✓ Predictive maintenance
- ✓ Documentation and certification management (if needed)
- ✓ Inspection by a qualified OEM Coperion engineer





Process section check-up



Process section check-up

Each barrel and each screw element will get worn by time.

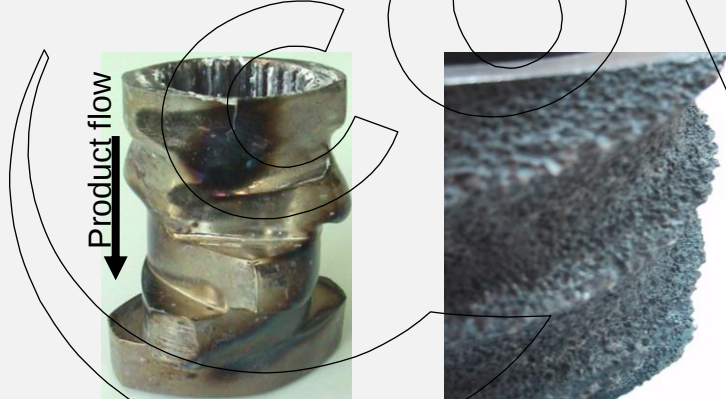
The lifetime of each part depends on:

On the location of its installation along the process section

On the screw arrangement itself

On frequency of start and stops and on the operating conditions

The products that are produced



Abrasion

Corrosion



Adhesion



Process section check-up

Results of a worn process section

Metal contamination of final product

Reduced mixing capacity

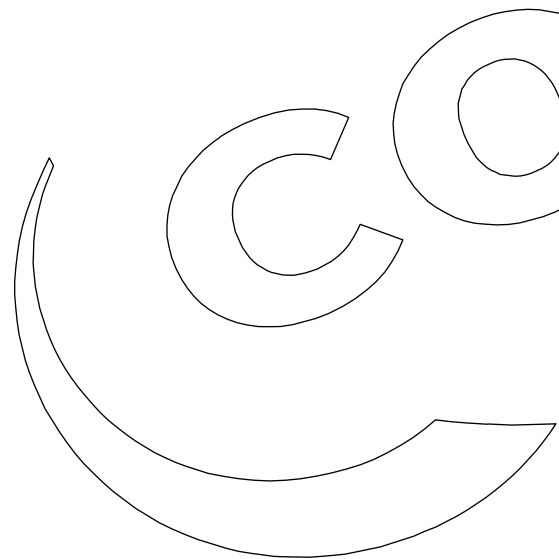
Capacity drop

Higher energy consumption

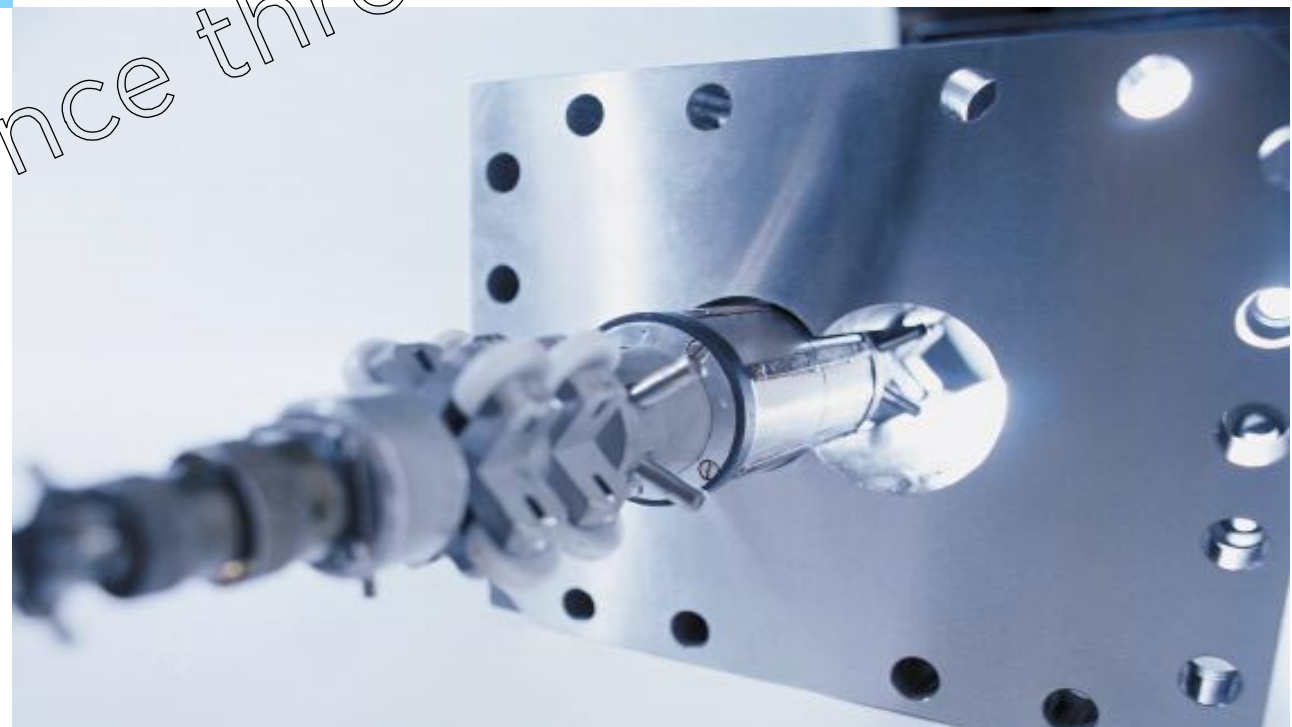




Barrel Bore Measurement



confidence through partnership

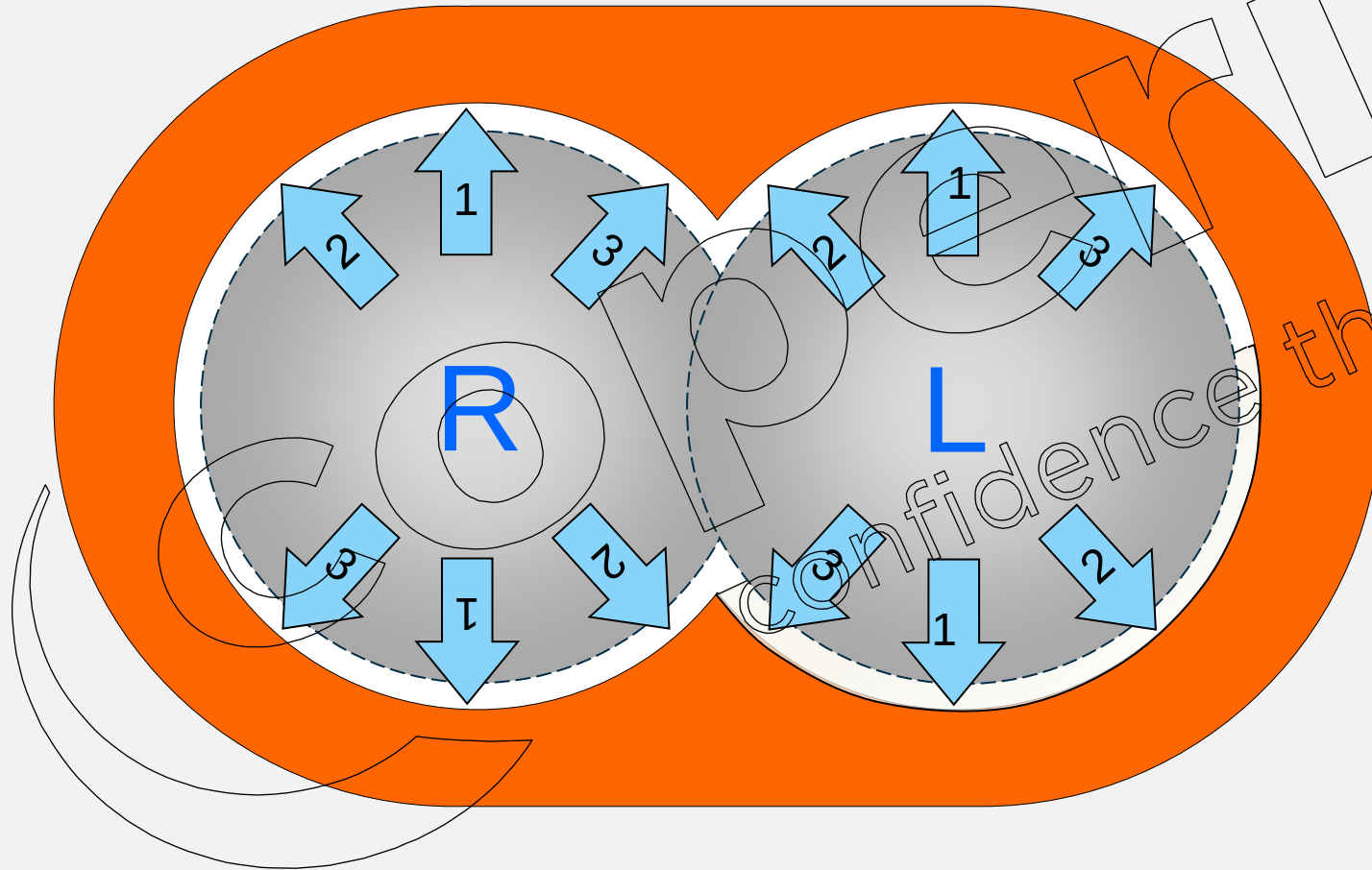


Barrel Bore Measurement BBM

WHAT WE OFFER?

- Precise measurement of the barrel bore without disassembly of the processing barrels
- Analysis of the discovered defects, reporting and a detailed risk assessment
- Suitable for preventive failure detection to minimize production losses
- Suitable for ZSK 32 to ZSK 177

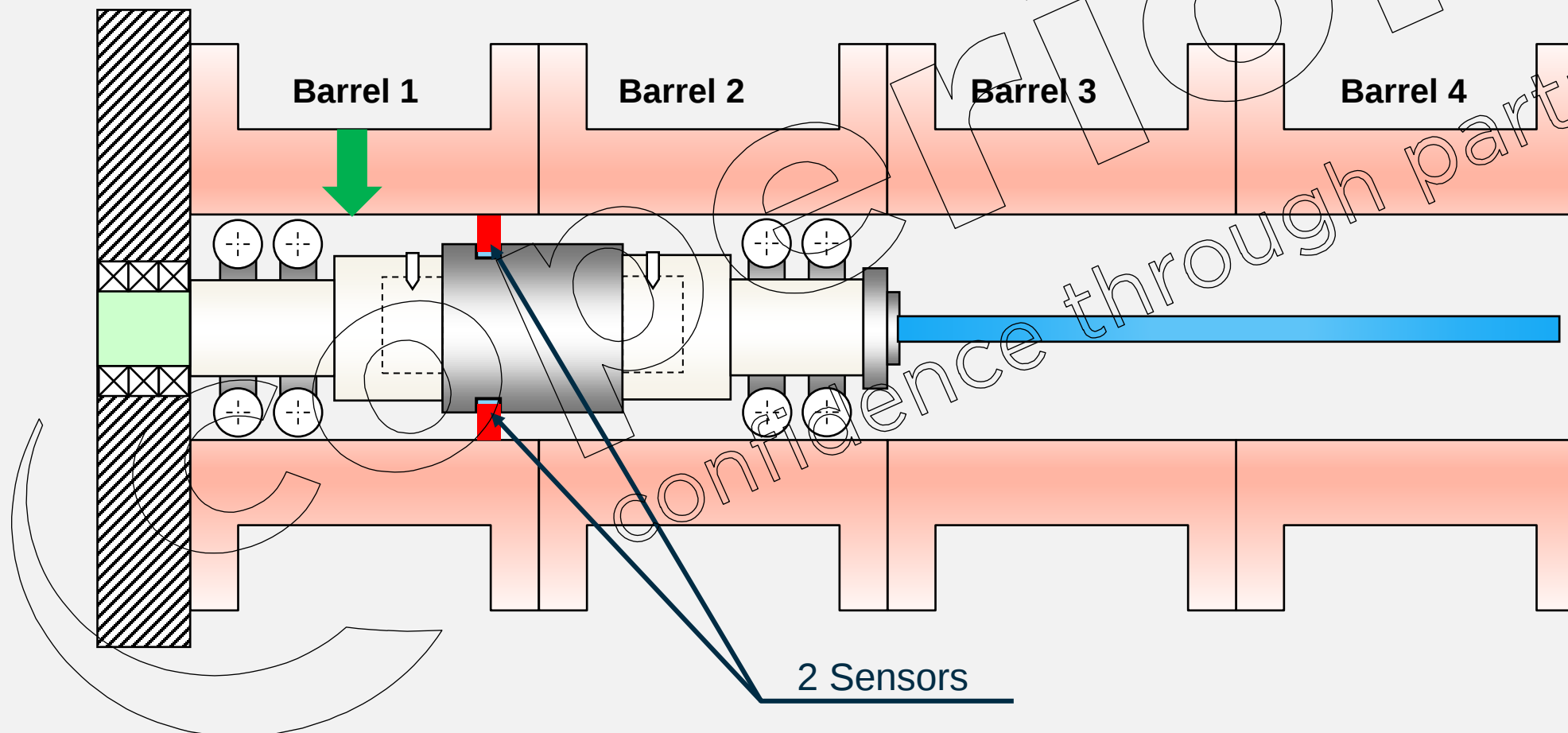
Barrel Bore Measurement BBM



3 measurements in every bore

One measurement every 5 mm

Barrel Bore Measurement BBM



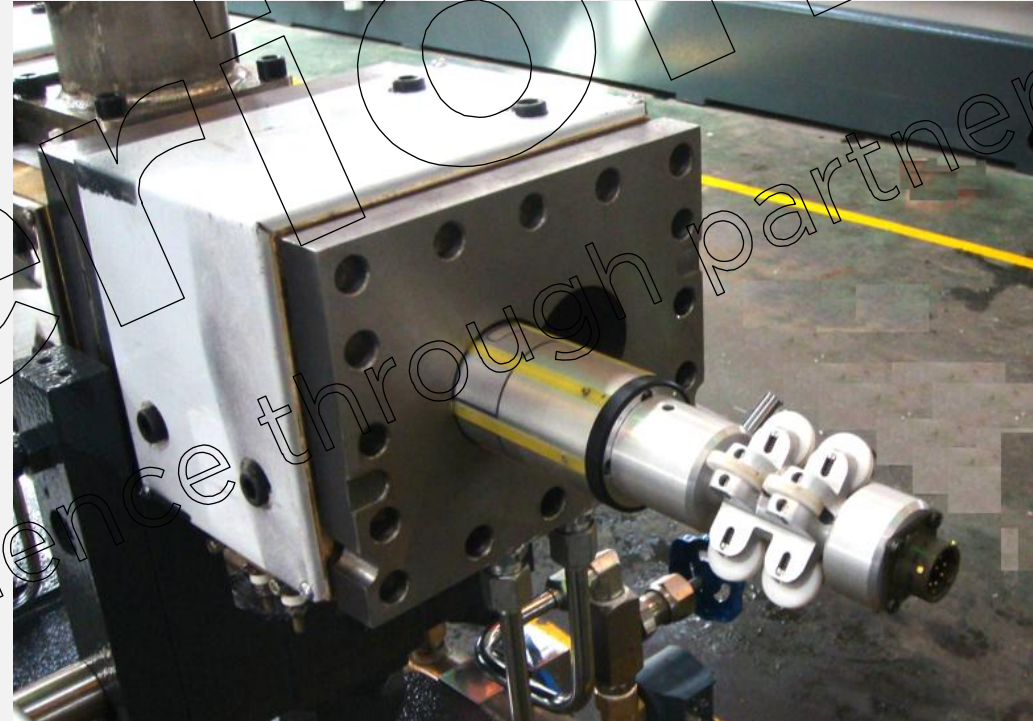
Barrel Bore Measurement BBM

Preconditions:

Screw shaft removed

Barrel inner surface cleaned

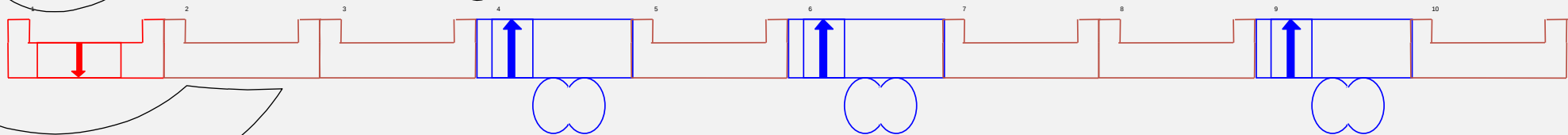
Extruder at ambient temperature



First BBM recommended after 3 years production

It takes 1 hour to measure an extruder

Barrel Bore Measurement BBM

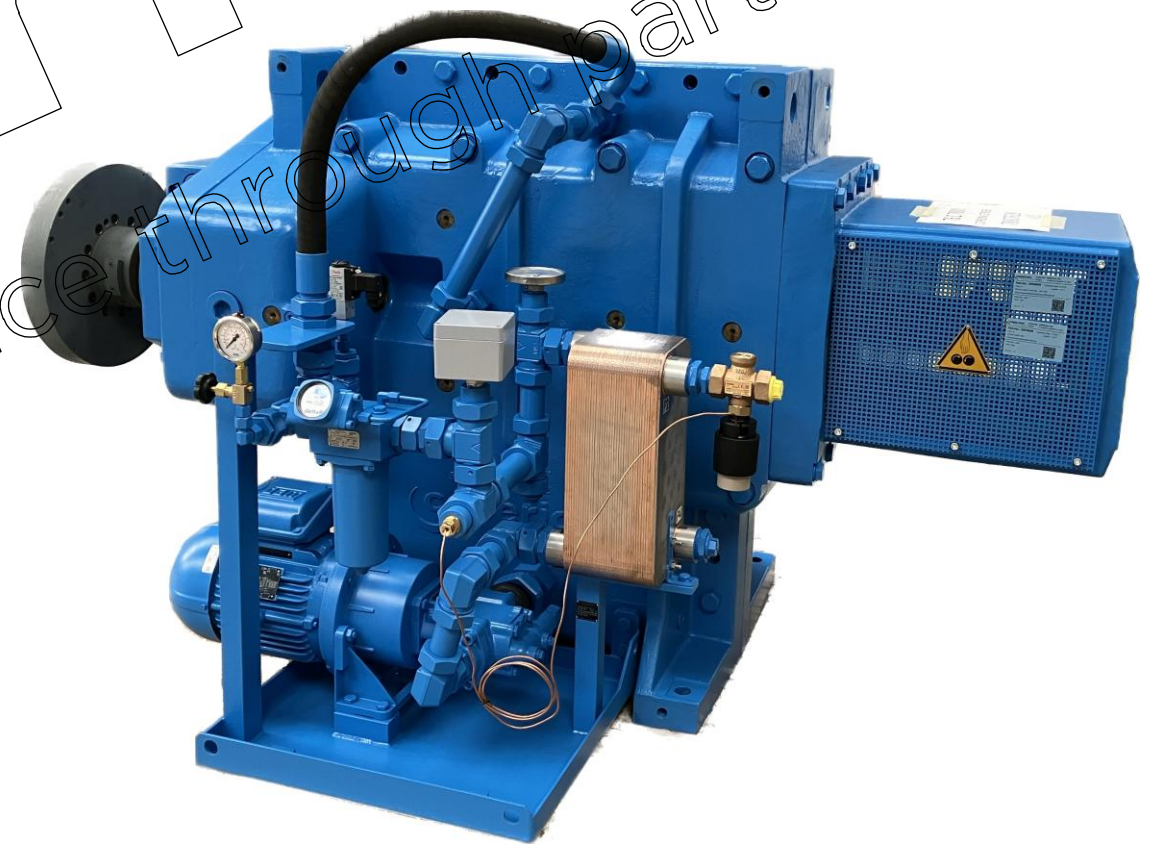


Data also available as .xls file

SSE can be checked at the same time



Gearbox
Preventive
maintenance



Gearbox preventive maintenance

Coperion recommends gearbox overhaul after 5 years of operation

Replace all bearings and seals

Check gearwheel tolerances

Magnetic particle test of all shafts

Check timing of output shafts

Assembly and none load test run

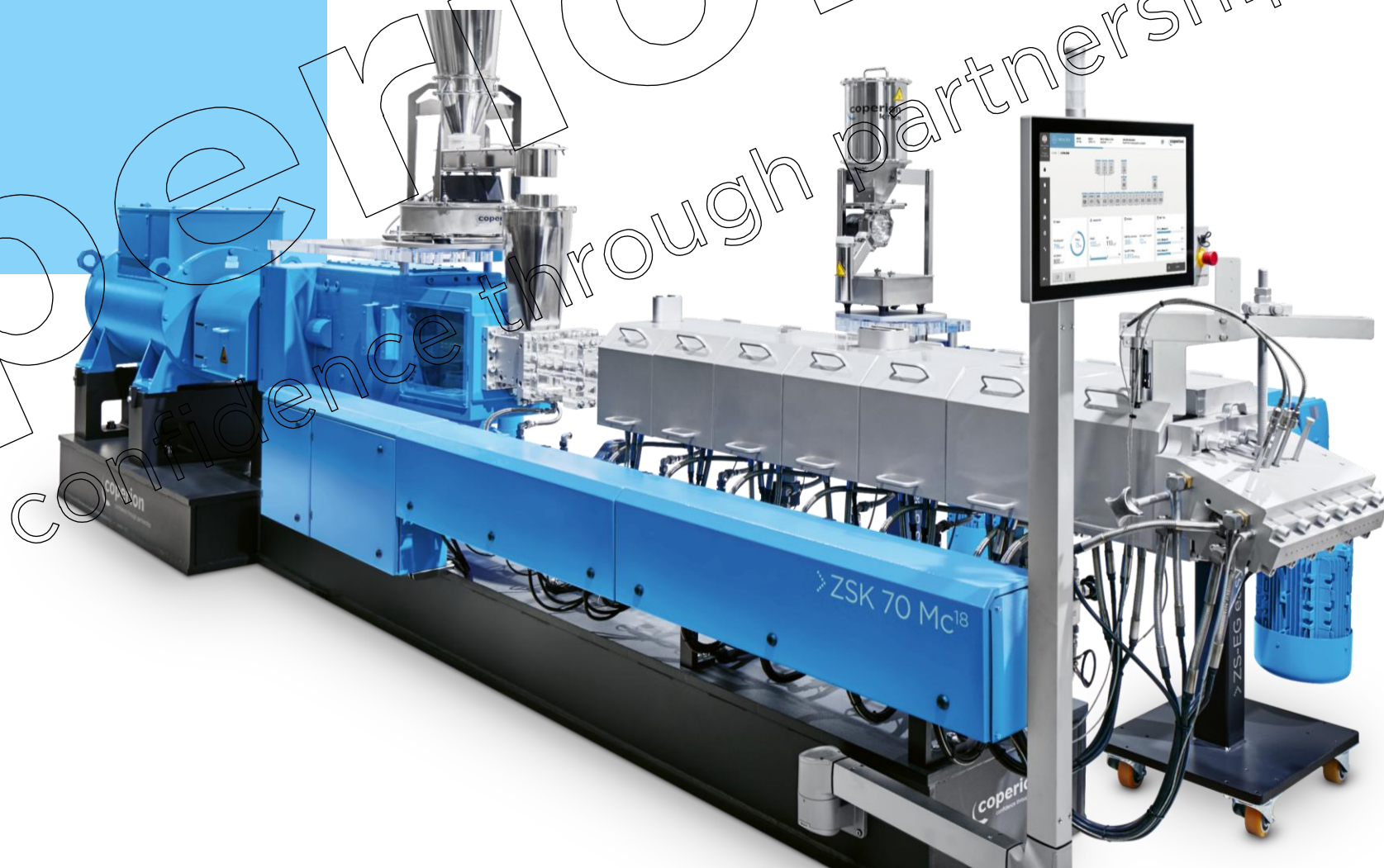
Gearbox preventive maintenance

Saving money on maintenance can become costly



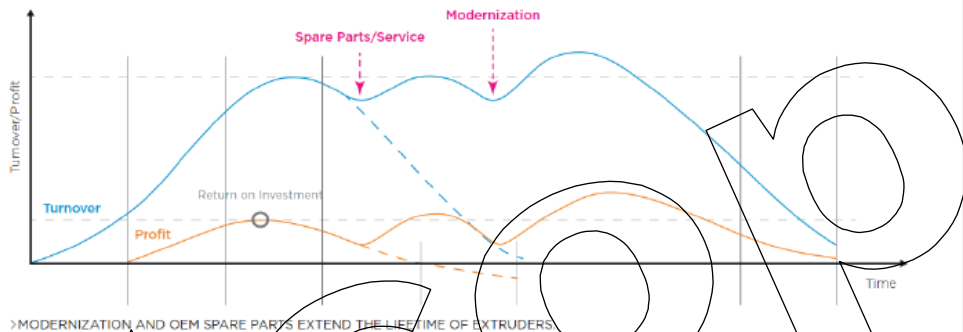


Modernization



Modernization

Why should you do the Modernization?



- Improve Operator Safety
- Increase reliability
- Increase throughput
- Reduce energy consumption
- Extend the overall lifetime of a ZSK
- Eliminate bottlenecks
- Replace obsolete equipment (control systems)

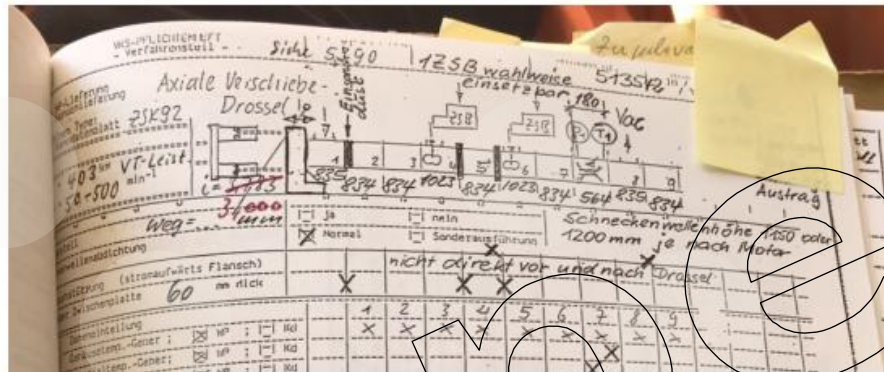
>> We have the expertise ...

- To increase the ZSK performance and its accessories
- Gain value for customer
- Deliver more than parts
- Accompany our customers during the complete lifetime of the ZSK

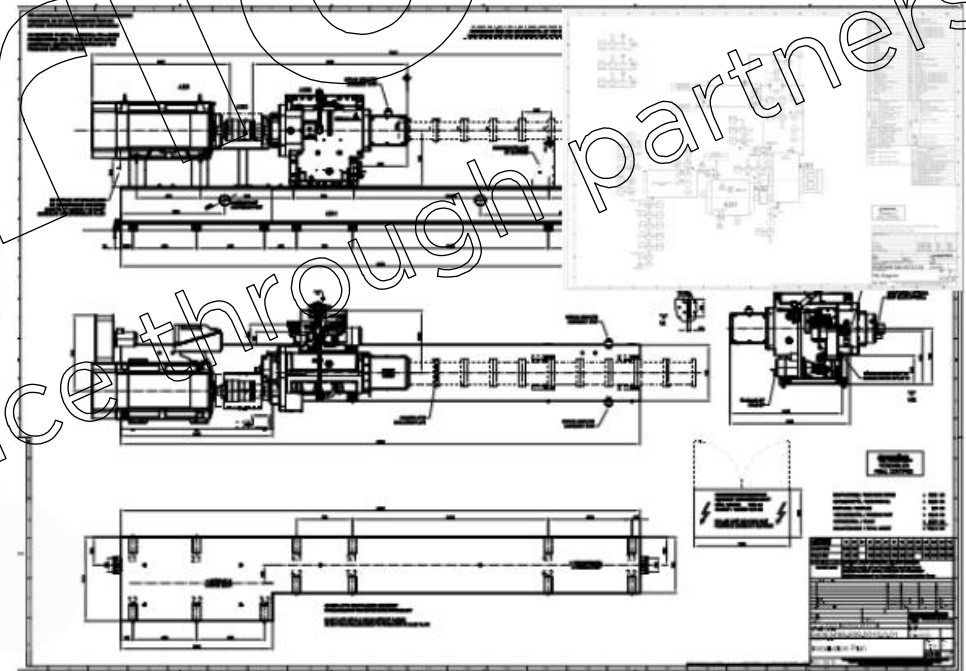
Modernization

Upgrade ZSK92 with new drive train & update of process section

OLD



NEW



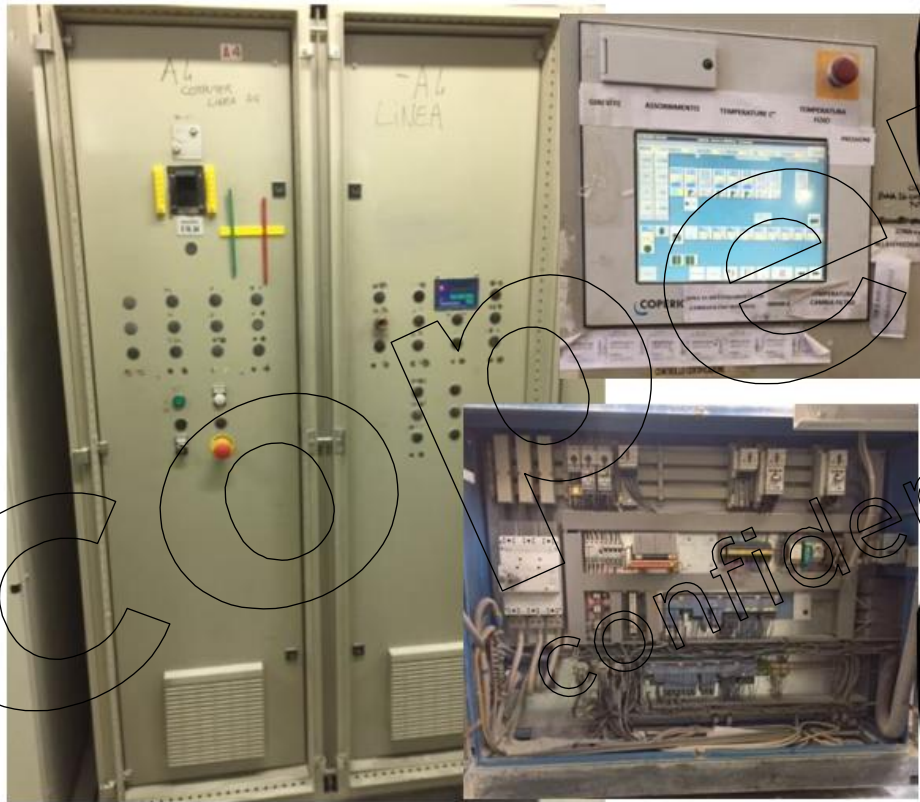
Benefits

- ✓ Increased reliability of ZSK
- ✓ Gearbox and drive state of the art
- ✓ In case of emergency, spare parts availability

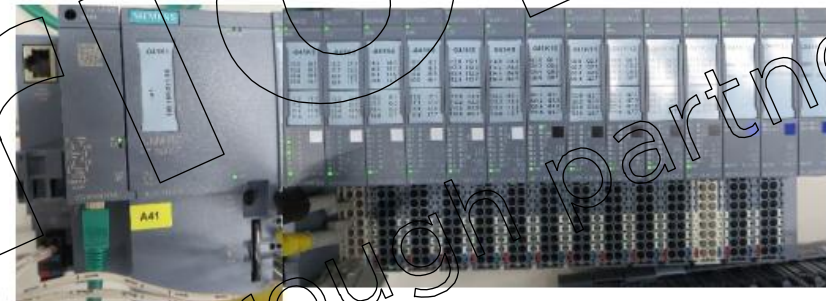
Modernization

Control system Modernization

OLD



NEW



Benefits

- ✓ Increased reliability of ZSK and control system
- ✓ Control system state of the art technology
- ✓ Exchange from spare parts possible

Modernization

Coperion K-Tron feeder Modernization

Everything that adds “new technology” or functionality to old equipment is a modernization	Adding new options and/or features to existing CK feeders, e.g adding ActiFlow, EPC, GT Belts etc.
Everything that is changing the feed rate of an existing Equipment is a modernization	Changing the feeder module, gearboxes reductions, screws etc.
Debottlenecking of an existing feeder is a modernization	Adding or changing components to increase or decrease Production rates
Replacing obsolete Parts or technology is a modernization All controls and weighing technology upgrades on existing CK Equipment	Upgrade old Controls to the latest Controls. Upgrade motors, gearboxes, filters, feeder modules etc. due to obsolescence.
Upgrade from Volumetric to Gravimetric is a modernization	Adding load cells and controls to a volumetric Feeder

Contact

Chanakan Wasinchatchawan

Sales Manager, Service (Aftermarket PM)

Coperion SEA Ltd

+66 8372 63977

chanakan.wasinchatchawan@coperion.com

www.coperion.com

Thank you for your attention.

You're very welcome to follow us.

For Performance Materials



For Food, Health and Nutrition

