HARDENING - CARBURIZING - CARBONITRIDING

TECHNICAL SPECIFICATIONS - STANDARD EXECUTION

SYSTEM 350		20/200	30/200	30/300	40/300	40/400	60/300	60/500	60/700
Max. temperature	°C	950	950	950	950	950	950	950	950
Output capacity	*Kg/h	50	70	110	140	180	210	350	500
Belt width	mm	200	300	300	400	400	600	600	600
Height	mm	60	60	60	80	80	100	100	100
Heated length	mm	2000	2000	3000	3000	4000	3000	5000	7000
Gas consumption	m³/h	2-3	4-5	4-5	5-7	5-7	13-18	13-18	13-18
Electric heating	kW	34	50	64	73	101	125	175	225
Gas heating	kW	_	_	_	_	_	155	220	260

^{*} Values for hardening and carbonitriding, case depth 0,10 mm







FURNACES AND HEAT TREATMENT INSTALLATIONS FOR MASS PRODUCTION







CONSULTING, DEVELOPMENT, RESEARCH AND MANUFACTURE OF INDUSTRIAL FURNACES

LA FENATTE | CH - 2942 ALLE | SWITZERLAND T +41 32 465 10 10 | F +41 32 465 10 11 INFO@CODERE.CH | WWW.CODERE.CH





SYSTEM 350



A RANGE OF FURNACES WITH BELT CONVEYOR FOR HARDENING, CARBURIZING AND CARBONITRIDING

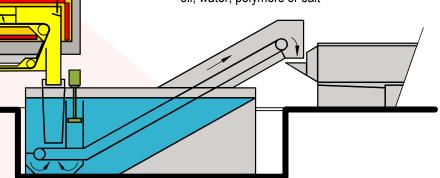
■ Production: hardening 50 - 500 kg/h Conveyor width: 200 - 600 mm

Heating length: 2000 - 7000 mm

Maximum temperature: 950°C

SYSTEM 350 QUENCHING BATHS

for guenching in oil, water, polymers or salt



SYSTEM 350

Automatic production line with belt conveyor including:

- loading systems
- handling systems
- weighing device
- washing machines
- hardening furnace quenching baths
- tempering furnace
- tank to stop tempering process





The elements can be heated by electricity or gas.

These continuous lines are used for carburizing, carbonitriding, tempering and hardening with quenching in oil, water, polymers or salt.

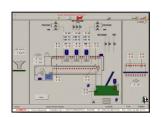
They serve to treat series pieces, e.g. screws, bolts, ball-bearings, springs etc.

The high degree of informatisation, the quality of the materials and the simple construction guarantee a reliable and at the same time profitable production.

The elements of our installations can be easily integrated into already existing production lines.



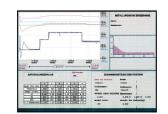
Programming



Monitoring



Managing



Recording



Installation management

SUPERVISION

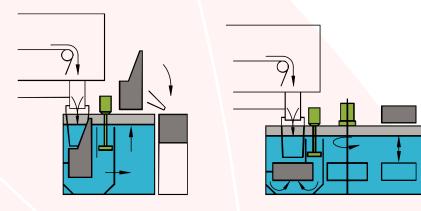
- Synoptic of the installation
- Control and regulation of the different elements
- Automatic or semiautomatic handling
- Production planning
- Follow-up of the production, management of the
- Filing of the production records
- Production analysis
- Treatment of the events
- Traceability according to ISO



AVANTAGES

- Gas-tight muffle with preheating zone
- The upper part of the furnace consists of several elements, which can be dismantled easily.
- The engine-turbine-units are mounted on a system of weight compensation, which allows expansion
- Dismantling of turbines and O2-probes from the top of the
- Heating elements and burners can be dismantled without complete standstill of the installation
- Continuous, controlled drive of the conveyor
- System to dry the conveyor
- Easy access to all regulating elements
- Regulation of the carbon potential for every single zone (Econox oxygen probe)
- Homogeneity and reproducibility of the treatments
- Quick change of the treatment cycles

Extraction of the pieces per conveyor, magnetic conveyor or buckets



Extraction per baskets

WASHING MACHINE

with conveyor, baskets or spiral screw

TEMPERING FURNACE

with belt conveyor or baskets, with or without channel and protective gas

