

Multi-Purpose Retort Furnaces



IVA Schmetz multi-purpose retort furnaces feature a high level of **flexibility** and **automation**. Thanks to integration of all major system elements – drives, quenching bath, if appropriate the switchgear and similar components – the furnace system is very **compact** and suitable for installation in very confined areas. The field of application extends to numerous thermochemical processes such as carburizing, carbonitriding, nitrocarburizing and nitriding, as well as to hardening under inert gas with quenching in oil or in water emulsions, and to various annealing processes.

The switchgear and regulating system is equipped with a **freely-programmable control unit** as standard equipment. Process regulation and control is automatic driven. A connection for external process control systems can be provided on request

IVA Schmetz multi-purpose retort furnaces can also be equipped with an oil-heating bath on request. This extends the field of application to hardening of hot-work and cold-work steel materials. Use of state-of-the-art construction materials - for example low heat-retaining insulation - permits economical application of dynamic processes, such as post-annealing.



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	RM 100	RM 200	RM 300
Max. charge weight (kgs)	100	200	300
Charge measurements (mm)			
Diameter	400	500	600
Height	400	500	500
Charging height when mounted in a pit (mm)	1,100	1,100	1,100
Required space for furnace system including oil bath (mm)			
Width	2,300	2,500	2,700
Height	3,600	3,800	3,800
Length	2,900	3,300	3,500
Nominal furnace temperature (°C)	1,060	1,060	1,060
Heating capacity (kW)	30	50	75
Power connection (kVA)	45	65	125
Oil bath capacity (m3)	1	1,5	2
Max. oil bath temperature (°C)	180	180	180
Furnace weight (kg)	3,500	4,500	5,000