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factory. The individual sections of the pumps are joined together with the aid of heavy machines in two work shops which face south and stretch through the whole depth of the factory. At their last stop in the south shop the pumps pass a testing point with two test basins.

The 2-storey office building rises to the south near the entrance. It houses in the east section of its ground floor cloak-rooms and wash-rooms for the works staff, and in its west section the personnel department.

### Cog-wheel factory at Oeynhausien (pages 178-181)

A 3-storey office building, running in a north-south direction was added on as head structure to the 3-bayed production shop which runs from east to west. The production shop has a floor space of 63x30 m and is constructed in steel concrete. It has two side aisles each 7.77 m wide and a cantilever middle aisle 13.80 m wide. The supporting external columns, 6.25 m apart, are situated behind the glass surface of the external walls. The office building and the production shop are clearly separated structurally. The office building is divided into the following departments:

Ground floor: entrance, reception office and waiting room. Store and distribution of material. WC and wash-room.

1st floor: commercial offices, manager's office, works office, and shower and changing rooms for works staff.

2nd floor: engineering department and common rooms for the works staff.

The division of the head structure into store floor and office floor is clearly apparent in the external form of the building. The structural texture of the steel concrete framework, for instance, is plainly visible from the outside. Occupying a total area of 35.57x6.25 m and supported by columns 4.44 m apart both the office floors have rooms which are 3 m high. The latter are bright and airy, face east and offer a splendid view of the Wiehen mountains and the Porta Westfalica.

### Spinning mill at Nordhorn (pages 182-184)

For the actual manufacturing shops the already existing building was extended by a three-storied steel concrete framework construction with overall dimensions of 39.33x37.33 m, supported on five columns each 7.40 m apart. In the connecting four-storied head structure are the necessary side rooms such as toilets, cloakrooms and common rooms for the works staff, and staircases, lifts and loading ramps.

Since the building site was very close to a river it was necessary due to the level of

under-ground water to lay the foundations of the building on a steel concrete base. The extension was carried out in steel concrete frames. The unplastered columns, 7.40 m apart, stand out clearly when viewed from the outside.

### Knitted Goods Factory at Fürstenu (pages 185-187)

For the actual manufacture of the knitted goods a large hall, 41x32 m was erected in steel concrete frames. The design is such that the hall requires only one interior support despite its total area of 1300 sq. m. The northern part of the hall was screened off to a depth of 7.60 m by a glass partition. Behind this, despatch office, winding room and raw material store with through lighting are accommodated. Forming a «T» with the east section of the hall is a low head structure with offices, entrance, porter's lodge, a small workshop, separate wash-rooms and changing-rooms for men and women and separate WCs.

### Porter's lodge of metal goods factory at Geislingen/Steige (pages 188-189)

The Württemberg metal goods factory has made great efforts in recent years to apply a long-term, rational method to the production time of its various products and to reduce its transport lines to a minimum. The rationalisation of the works had therefore necessarily to alter the aspect of the factory and the result was the new entrance façade at gate III. The porter's lodge is supported by six isolated tubular steel columns which support the steel concrete structure of the two roofing layers. The windows running right round the building are constructed in a light metal composite and are anodised in black and silver.

The steel concrete structure of the two passage ways was kept as graceful as possible in its dimensions. Columns, tapering to a point at the top and each 3.20 m wide and 5 m long, support the ceiling which is only 10 cm thick. The whole steel concrete structure was left unplastered and was hammered with a granulating hammer. Electrically operated portcullis-type gates shut off the factory.

### New Factory of Suter Biscuit Ltd., Winterthur (page 190)

Silos fitted into the roof construction serve the purpose of receiving and storing raw materials. The latter are then automatically transported to the corresponding apparatus in the manufacturing shop on the first floor. An automatic conveying plant comprising three serpentine tracks stretches right through the whole shop. From here the finished goods are

brought, also on automatic tracks, down to the despatch room on the ground-floor. The goods are then loaded directly into delivery vans via the loading ramp.

On the ground floor and in the basement are the stores for chests and boxes which are automatically conveyed into the despatch room. The remaining part of the ground floor houses offices and cloak-rooms for the staff as well as two shop premises which can be let.

### New administrative building of Aare-Tessin A.G. and General Post Office at Olten (pages 191-195)

At Olten, on premises lying between the SBB railway lines and the Aare a large building combining office and Post Office has arisen as a «bridgehead» near the old covered bridge. This building houses the administration of the Aare-Tessin A.G. and the new Olten General Post Office. A spacious Post Office counter hall with 13 counters was envisaged which would be accessible from the Aare quay; behind the counter hall the extensive postal quarters, such as parcels room, postyard and cheque office, had to be arranged next to each other and so that they were in part directly accessible from the Bahnhofstrasse. In addition, the postal administration required three office stories and the southern half of the ground floor in a building facing the Bahnhofstrasse.

At the same time extensive office space was required by the Aare-Tessin A.G. These rooms had to be accommodated in a 7-storey tower building and in four floors above the Post Office counter hall and also in the northern half of the ground floor.

The problem thus had four aspects: A tower building for offices with its entrance on the Aarequai; a 5-storey office building with a counter hall on the ground floor; connected to this a one storey building together with a ground floor, equipped with a large post yard, and on the Bahnhofstrasse a 3-storey office building for the postal administration.

### Design for Unesco building, Paris The Main Building (pages 196-200)

The whole ground floor is taken up by a hall which is for the most part enclosed in glass and from which stairs and lifts lead to the upper floors. These stairs and lifts are situated at the juncture of the three arms of the «Y» shaped building, together with the goods lifts, pipe lines and wiring shafts.

On the various floors are arranged the individual secretariats and offices of the world-wide organisations. The broad contours of the plan permit of great variety in the distribution of the separate depart-

ments which thus dispose of a façade length of three times 150 m and a depth of 6 to 7 m.

On the top floor are restaurants, roof gardens, a cafeteria, bar and extensive rest and work rooms for staff use. Beneath the building are arranged two basement floors which house records rooms, garages, the technical centres and a cinema.

The conference building. The large plenary session room completely occupies the narrower part of this trapezium shaped building. A connecting hall runs right across the whole building. At the south-east end of this hall is the entrance, and the north-east side continues by way of a connecting structure to the Secretariat building and the latter's large ground floor hall.

Design. The main building is an iron concrete structure. Its pillars are 20 feet (6.09 m) apart and are set at a distance of 10 feet (3.04 m) behind the façade. Between the pillars runs an under girder of uniform height, which is divided into a «V» in the consoles. Between the main under girders which run in a crosswise direction, longitudinal under girders of varying heights are arranged under which a pressure plate of varying thickness is fixed. This novel structural system of Pier Luigi Nervi results in a ceiling which slopes more steeply at the pillars and which juts both outwards and towards the middle of the building.

The side walls of the building are non-supporting. This novel system, devised by Nervi, the brilliant designer in iron concrete, combines the utmost utilisation of static strength with the greatest possible economy.

### Extension to the State Bank of Bavaria at Erlangen (pages 201-203)

The building of the Erlangen branch of the State Bank of Bavaria was situated at a busy street corner; it represented the 1910 style of architecture and did not quite meet the technical requirements of a modern business. The Bank Directors therefore decided to convert the building and extend it considerably. The plastic profiles of the old building's façade, however, were left untouched. The new sections are those enclosing the courtyard from south and east. The east section contains on the basement and ground floor offices, reception and consultation rooms, and on the top floor the Manager's flat. In the south section there are offices, registry, wash-rooms and changing-rooms. On the roof there is a large terrace connected to the covered passage in front of the Manager's flat.



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