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Description	Date	Observations
Electronic weighting machine for quality control	1993	First own mechanical design for a company
Sizer of elongated fruits	Nov 1994 – Mar 1995	Innovative system. Tests for a mobile fast gate.
Small model of the machine to staggered-packing fruit	Dec 1997	Simplification of the normal staggered-packing fruit machine for small clients
Design of dozens of formats for staggered-packing fruit machines	1996 -	Automatic design
Mobile system of baskets to gather fast flying fruits	Apr – Sep 2000	Simulation of trajectories. Tests.
Other auxiliary mechanical elements		Adaptation of designs to new necessities and particular installations

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TECHNICAL PROJECTS. CARRY OUT TESTS AND EXPERIMENTS
Various types of calculations for the projects

 $\bullet$  Fatigue calculation of axes for sizers (up to 3m length) with pinions and pins.

• Flexion, torsion, tension, deformation for diverse pieces

- Simulation of dynamics of bodies in free fall
- Fluid dynamics for drying tunnel
- Water vapour calculations for drying tunnel
- Calculations of evaporation and heat transmission for drying tunnel
- Air aconditioning for drying tunnels in TORRES
- Electrical power calculations for the motors in several sizers

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Vicente M. Queral Mas TECHNICAL PROJECTS. MANAGEMENT OF TECHNOLOGICAL ACTIVITIES. IMPROVEMENT AL SUPERVISION OF INSTALLATIONS AND EQUIPMENT, DEVELOPMENT OF NEW PROCESSES Example of installation of one machine developed by me Torres Hermanos, cítricos con señas de identidad 2 CALIBRADORES EN PARALELO 91 m 10 m 70 m 11111111111 EMPRESA 4 TUNELES DE SECAD 10 ENCAJADORAS The installation SERIE LINEAL DE 28 PALETIZADORES published in a newspaper Installation in TORRES HNOS. Y SUCS. S. A. Dec 2001 (Only machines developed by me) Production 60 tons/hour (exceptional production) Approx. 70% of the total machinary are own designs Features :