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**INTRODUCING  
MYSELF  
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**ITIB**  
**MACHINERY**  
CORRUGATORS

# **ITIB MACHINERY INTERNATIONAL**



**foundation**



**production of the 1° corrugator**

**Production of water-cooled corrugators  
from ID4,5 up to OD800,  
dies, moulds, downstream and ancillary  
equipment**

**In-house R&D division**

**Proactive attitude, not just consultancy!**



**ITIB**  
MACHINERY  
INDIA  
CORRUGATORS

# **ITIB MACHINERY INDIA**



**set up the company under  
Indian law, with headquarters  
in Bhiwandi**

**Assembling and supplying small-sized  
corrugators up to OD75, extrusion lines  
for the Indian market  
... and giving local technical service for  
ITIB Machinery corrugators!**

**Machineries built to last, ensuring  
precision, durability, and efficiency!**





**PAST**

**NOW**

**FUTURE**



# **INDIAN MARKET IN THE PAST**

**Requests for multi-purpose lines to  
produce pipes for different applications  
and in different materials**





# **INDIAN MARKET TODAY**

**Demands of more productive and more  
dedicated lines, both in terms of  
product and materials**



# **INDIAN MARKET IN FIVE YEARS**

**Growth forecasts in all sectors**

**Increased demand for high-performance  
lines**



# **WHICH ARE THE FEATURES OF THE MODERN MARKET ???**

- ✓ **quality**
  - ✓ **performances**
  - ✓ **reliability**
  - ✓ **low maintenance**
  - ✓ **easy to use**
- ...of the corrugators**



# **APPLICATIONS & CORRUGATORS**

## **IN THE INDIAN MARKET**



# double-wall corrugated pipes for electrical conduits



## FV250

40mm OD to 200mm OD







# Corrugator FV250





**double-wall  
corrugated pipes for  
drainage and sewerage**



**FV400**

**75mm ID to 300mm ID**





# Corrugator FV400







**The topic is about high performance corrugators...**

**Why???**

**2018: FV250, FV400 corrugators were joined by...**

**FV200HP**

**HP: high performance!**

**From OD40 up to OD200**

**Let's compare them...**



# From FV250 to FV200HP

**Both corrugators are characterized by:**

- **ALUMINIUM MOULDS** for better heat exchange
- **INTEGRAL COOLING** with water flowing directly into the blocks
- **VACUUM FORMING** for better material distribution along the profile
- **ZOOMING CENTRAL CHANNEL** to size the moulds to the pipe diameter

**But if we deeper compare the two models...**



# From FV250 to FV200HP

- **pushing mould carriers on sliding plates**
- **water cooling pipes and rotating water distributor internal to the guides and the moulds chain**
- **Some preventing maintenance required to avoid water leaks (hoses replacement)**
- **mould carriers on rollers, driven by horizontal gears and no sliding plates**
- **water cooling pipes and rotating water distributor external to the moulds chain, resulting in no friction between hoses and metal parts**
- **optimised cooling channel, 20-30% longer**
- **cooling every 2 pairs of moulds (more uniform cooling of the tube)**



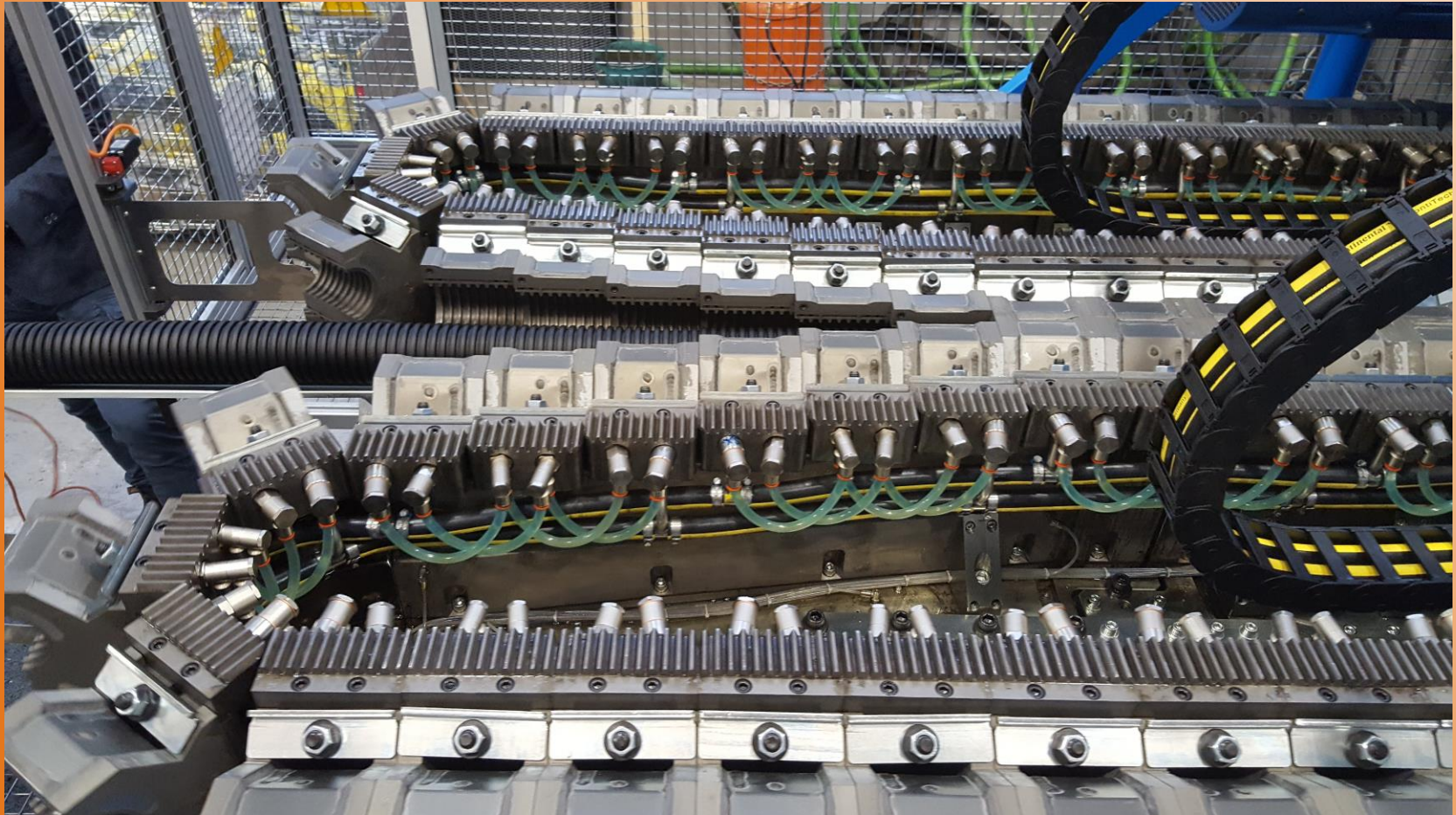
# From FV250 to FV200HP

- **limited mechanical speed of 16m/min**
- **replacement of breaking disks in case of emergency locks, to avoid damaging vital machine parts**
- **two motors for the moulds chains motion**
- **max mechanical speed of 35m/min**
- **ball and automatically resetting torque limitators, no replacement required**
- **single motor for both moulds chains**
- **interfacing with ERP by OPCUA protocol**





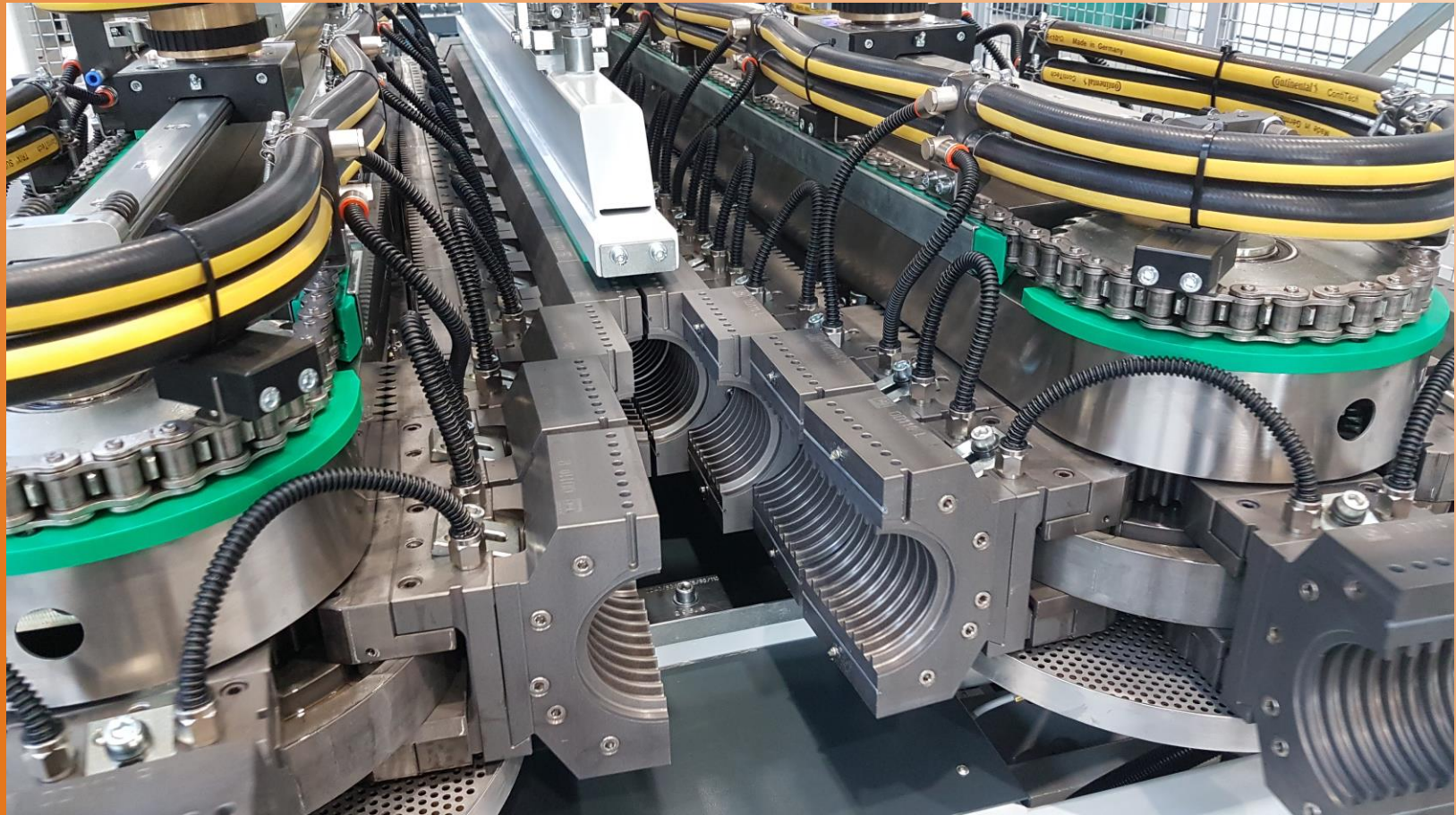
# From FV250 to FV200HP







# From FV250 to FV200HP





# From FV250 to FV200HP



**Torque limitators**

**One more important feature...**



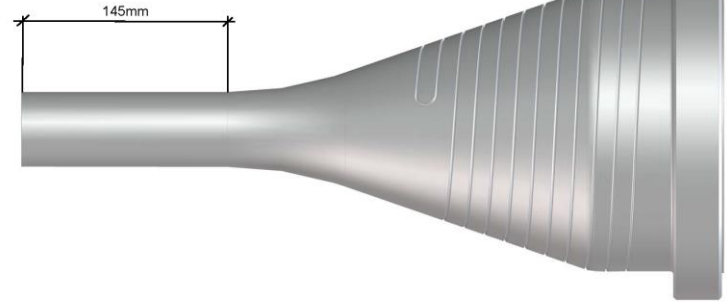
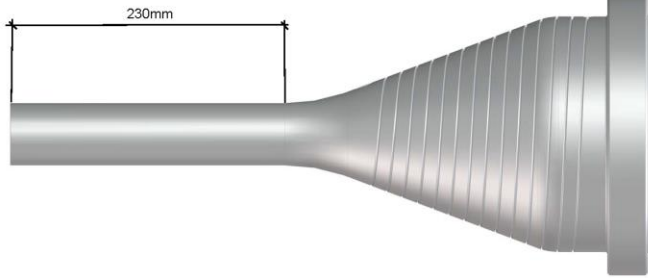
# From FV250 to FV200HP

- **new die closing and handling system, allowing shorter die length, lower back pressure and higher speed with small diameters**
  - **appx. 18m/min with OD40**
  - **appx. 22m/min with OD50**  
**on FV200/50**  
**(MFI 0,7g/10' at 2,16Kg)**





# From FV250 to FV200HP



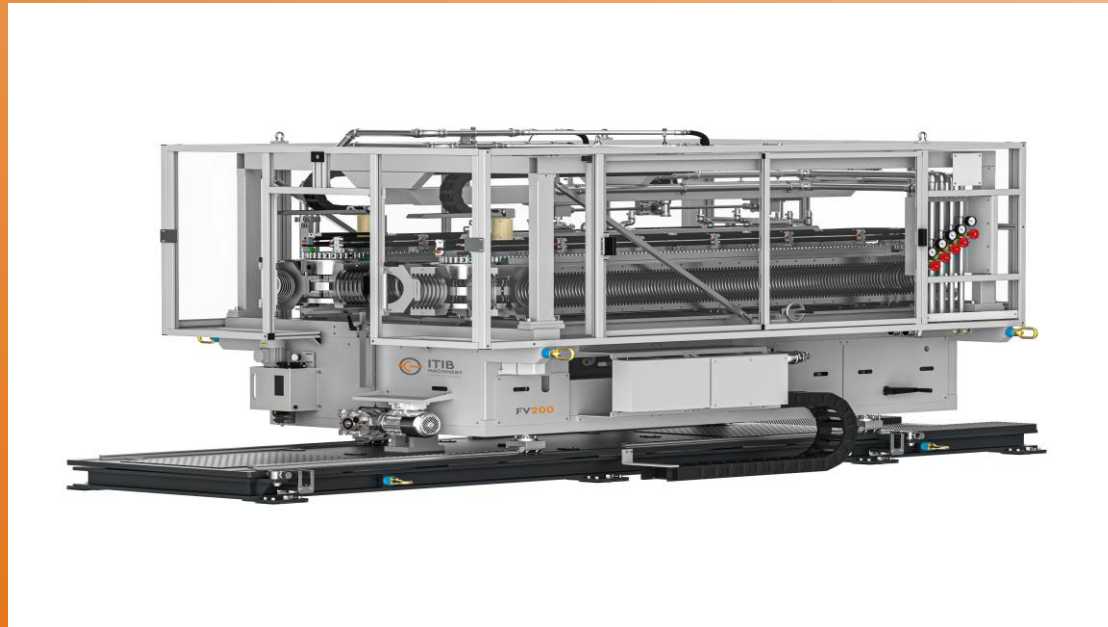
**230mm**

**85mm LESS!**

**145mm**



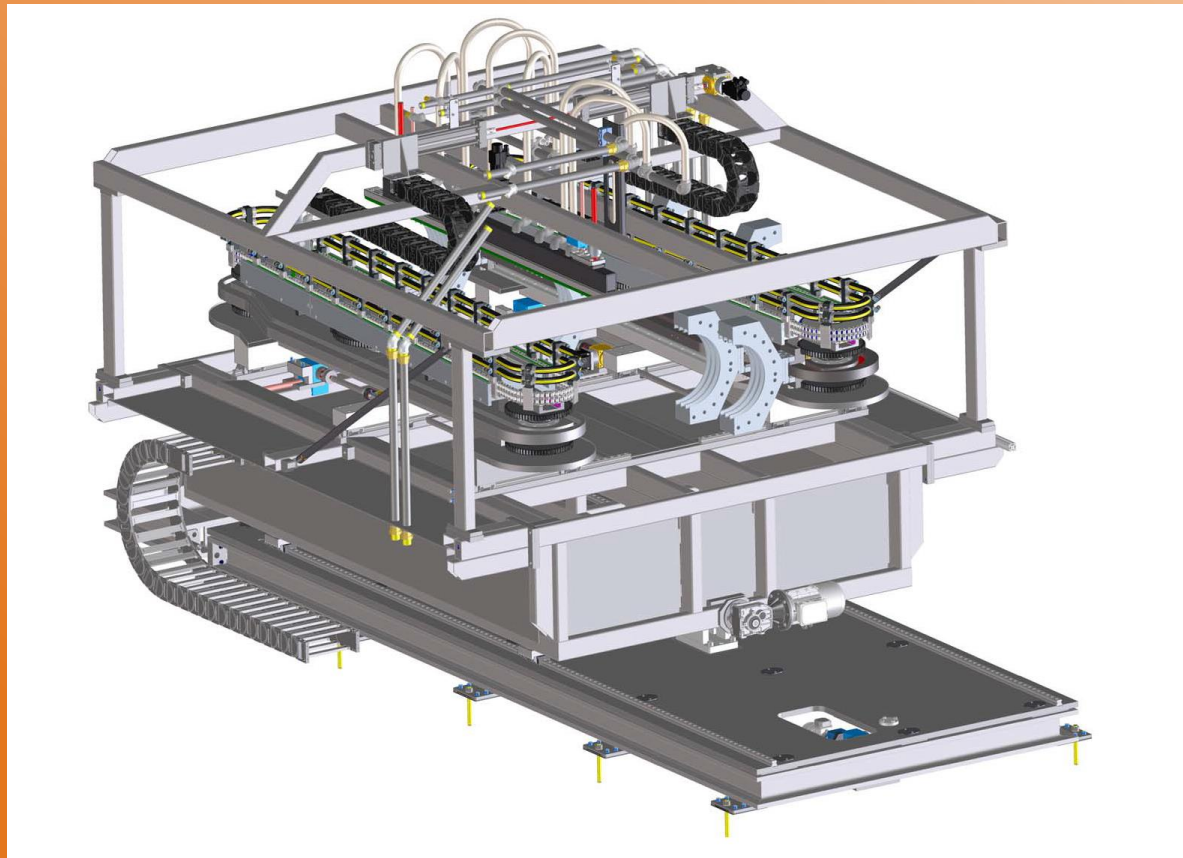
# FV200HP in action





# FV400HP

## ...forward thinking...





# **FV400HP**

## **...forward thinking...**

**You will find the same features in the new FV400HP corrugator, which ITIB MACHINERY will show at the K2025 exhibition.**

**This new corrugator will become our milestone in the range up to 300mm ID!**



# **And finally... FV32/112HP**

**Max mechanical speed 80 m/min!**

**Designed for the production of PP, PE  
and PVC corrugated pipes, especially  
for the building sector**



**Today, this corrugator is maybe  
premature for the Indian market, but in  
some years??  
Who knows...  
Take a look at this video:**





**Partners in ITIB MACHINERY INDIA**

**Rajiv and Jai Sanghavi are at your  
disposal!**





**THANKS  
FOR  
WATCHING**







**THANKS TO**

**All of you**

**@RajivSanghavi**

**@JaiSanghavi**



# GET THE PRESENTATION

