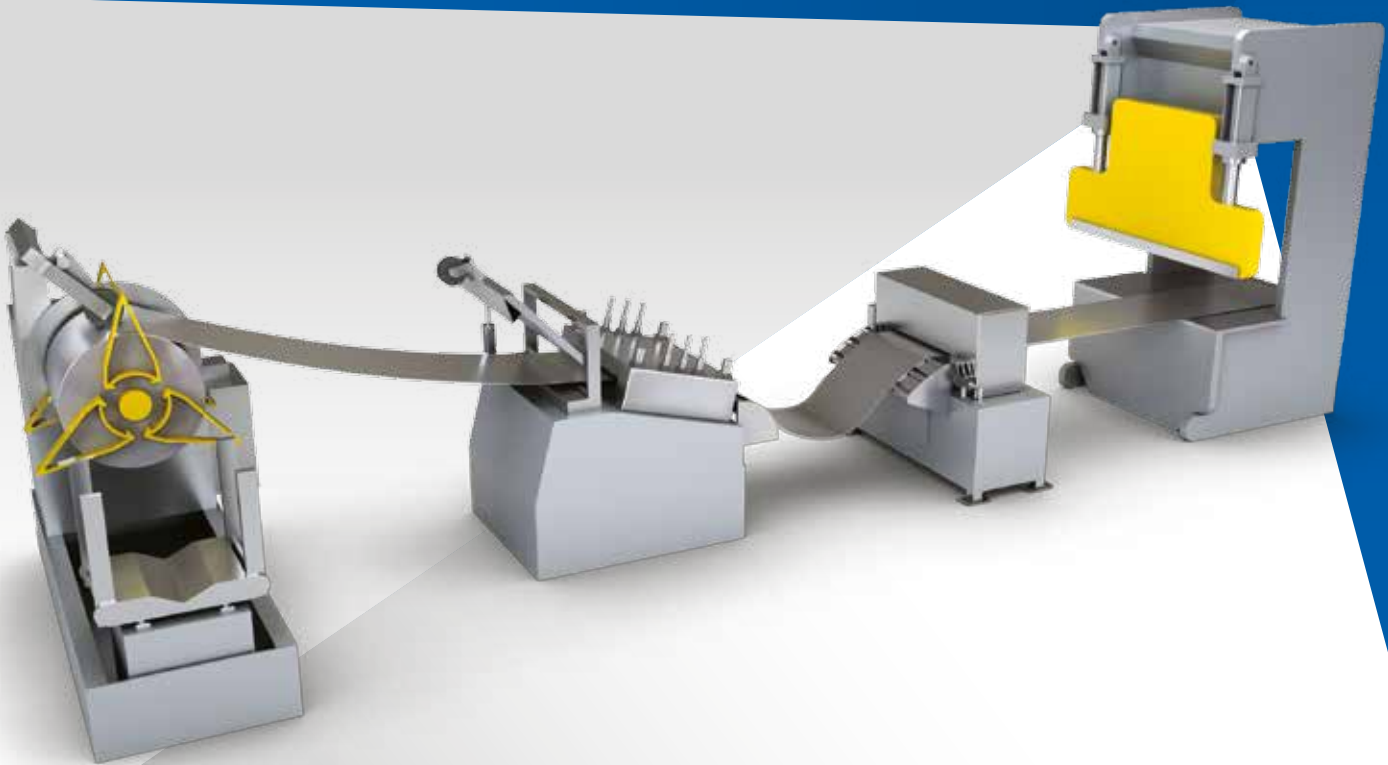


**YASKAWA**

# Press Feed Productivity

Increase Your Throughput with Servo Control



# More Production, Higher Quality: The Time is Now.

Seeking improved productivity to stay competitive? Start your search with press feed controls.

- 30% of US control systems are 15+ years old
- Manufacturing job openings are up 300%, so staffing up to improve productivity isn't an option.

Upgrading to a Yaskawa control system can immediately boost output up to 1/3, while preventing expensive downtime due to outdated controls. An upgrade can be a turnkey process, minimizing your team's time and effort.



**30%**  
INCREASE  
IN  
throughput

## Why Upgrade: The Key Benefits

**Performance:** An immediate 30% increase in throughput on most existing press feed equipment

**Easy Implementation:** Affordable, reliable options for turnkey improvement or assistance in updating



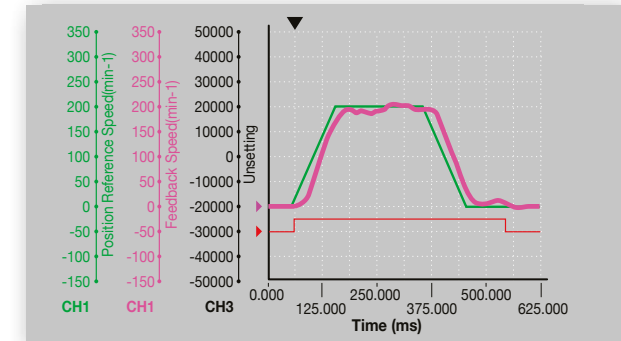
## Benefit #1: Better Parts, and More Per Minute

The speed and precision of Yaskawa controls improve press feed throughput without sacrificing product quality.

**800 MHz processor speed** allows a motion controller to process commands with lightning speed, eliminating delays.

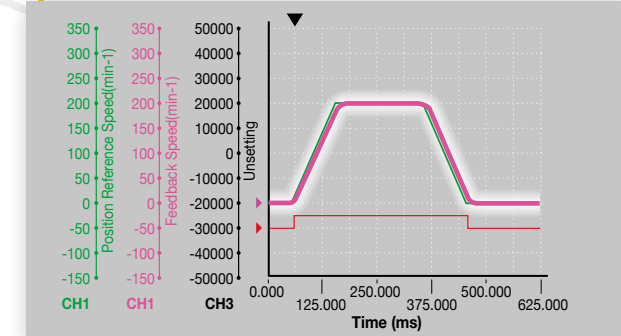
**24 bit encoder resolution** gives a controller extremely precise positioning data, yielding faster movement to a precise position.

**THE RESULT:**  
faster position  
and speed loop  
closure with less  
overshoot and near  
zero settling time

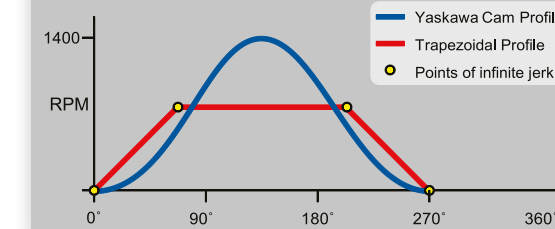


▲ 50 ms settling time: Sigma 1 servo systems and some competitors' current designs

▼ 0-4 ms: Yaskawa's new Sigma-7 servo systems



### Cam Function Block Profile vs. Traditional Trapezoidal Profile



Yaskawa's adjustable camming profiles reduce the jerky movement compared to traditional trapezoidal/triangle profiles.

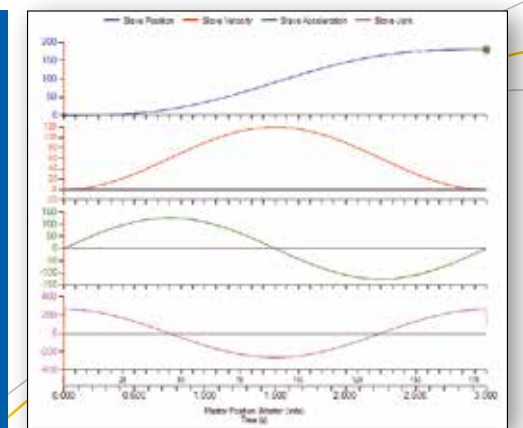
**THE RESULT:** less  
mechanical stress to  
valuable equipment,  
no damaging marks  
on metal parts from  
rough handling

## Benefit #2: Easy Upgrade to New Technology

At Yaskawa, we stand behind our technology with the capability to implement it with 100% success.

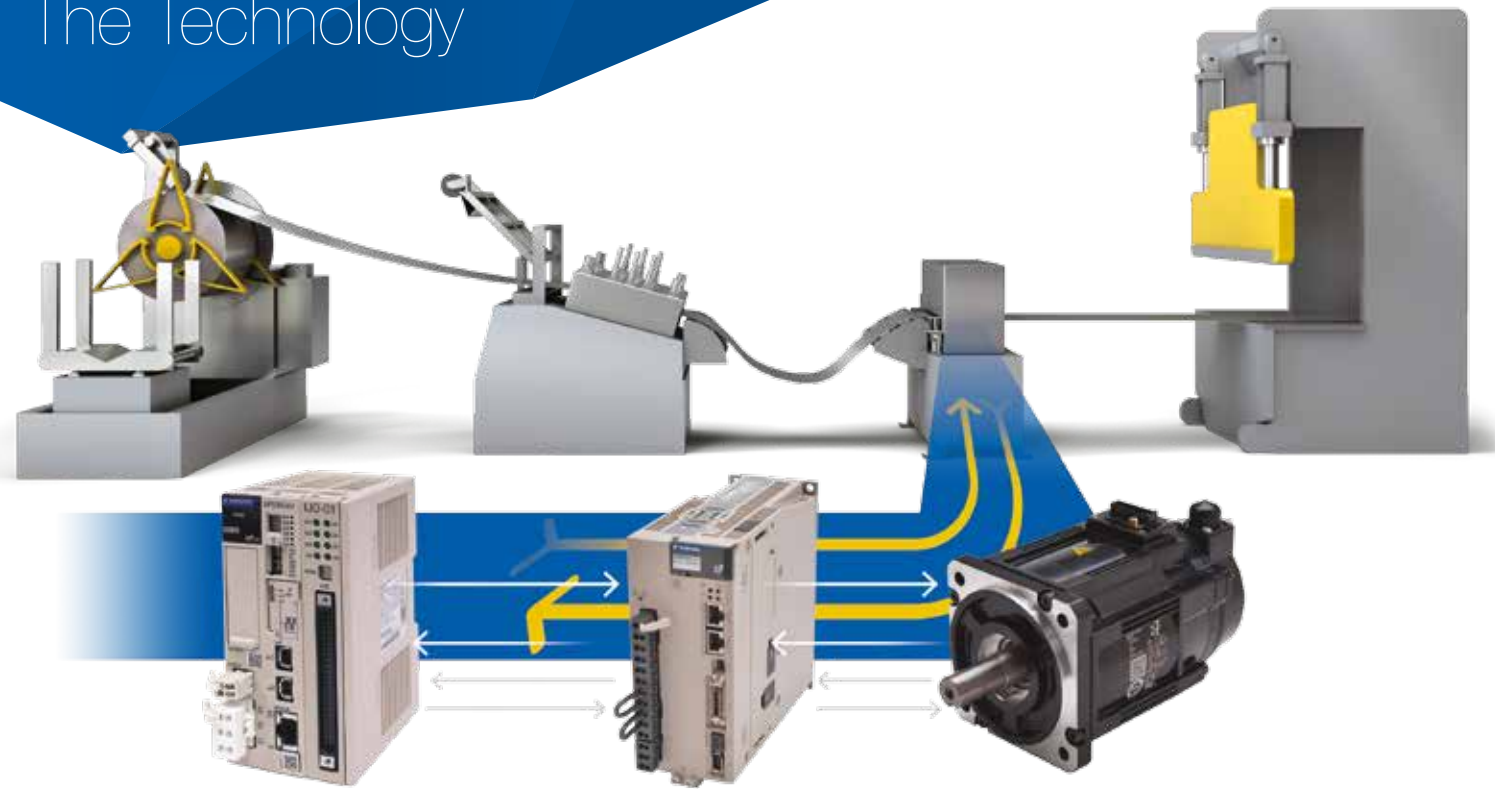
- **Turnkey:** The Yaskawa Engineered Systems Group can perform your upgrade from start to finish, or choose a local Yaskawa integrator or motion control distributor. We'll work with your production schedule to make things easy and convenient.
- **Tailored:** Want a complete DIY experience? We're standing by with expert advice. Need a little help with sizing, programming or installation? Draw on Yaskawa's worldwide resources or local integrator/distributor help.

The Implementation



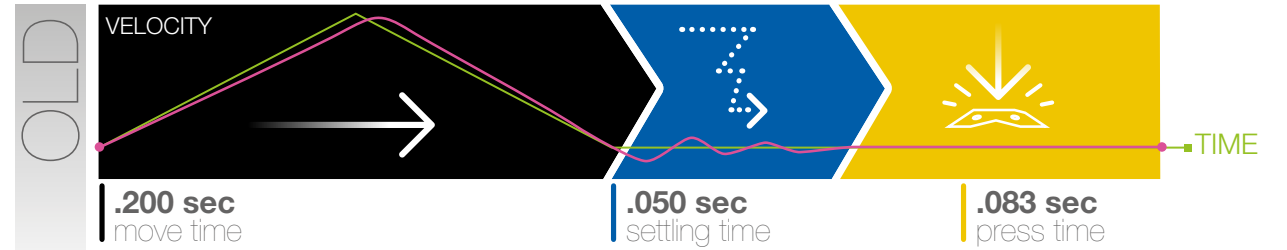
An easy-to-use graphic cam editor quickly tailors system performance to your application

# The Technology



- A control system based on standardized IEC-61131-3 programming
- Single axis control systems (suitable for the vast majority of pressfeed applications) can easily expand to multi-axis controls for zig-zag press feeds or press-to-press transfers
- Pre-engineered connections to several leading HMIs
- Yaskawa V1000 VFD for powered decoiler and straightener

# 4,867,200 More Parts per Year



180 parts/minute = 3 parts/second = one part per .333 seconds



220 parts/minute = 3.676 parts/second = one part per .272 seconds

## One Standard for Performance: Rock Solid

<b>99.99993% QUALITY</b>	A recent survey of 100,000 new Yaskawa servo systems found only 7 with manufacturing defects that affected operation
<b>100 YEARS</b>	A reputation for reliability and unparalleled customer support since 1915
<b>25 YEARS</b>	Average lifespan of a Yaskawa servo system.
<b>30 CENTERS</b>	Motion Solution Centers across the US and Canada, factory trained to help you select and size Yaskawa servo products
<b>20 INTEGRATORS</b>	US/Canada motion system integrators with expertise in panel building, software, HMI and press control integration, plus creation of turnkey systems.
<b>LONG-TERM</b>	Local long-term support with Yaskawa expertise behind it

**NEW vs. OLD**  
percentage increase:

- 22% more productivity/sec**
- .676 more parts/sec**

40 parts/minute  
x 60 minutes/hour  
x 2000 hours/year

= **4,867,200**   
**additional parts produced per year**





Yaskawa is the leading global manufacturer of low and medium voltage variable frequency drives, servo systems, machine controllers and industrial robots. Our standard products, as well as tailor-made solutions, are well known and have a high reputation for outstanding quality and reliability.