



TYPE K
DAMPER DRIVES
CONTROLS INTERNATIONAL, INC™

Damper Drive Solutions for Tangential-Fired Boilers

World Leader in Damper Drive Technology



ROTARY + LINEAR DAMPER DRIVES

About TYPE K Damper Drives

Experience with innovative solutions for your boiler

TYPE K Damper Drives designs, engineers, and manufactures unique solutions to damper drive problems typically found in Tangential-Fired Boilers.

Tangential-Fired Boilers present both unusual and technically challenging damper drive problems. At TYPE K Damper Drives, we have the experience and technical know-how to deal with issues of extreme heat, cramped spaces, and working around obstructions like coal pipes and structural elements.

TYPE K originated the "Drop-It-In" retrofit concept to permit users of old-style drives to upgrade their facilities with high-performance, state-of-the-art damper drives without the local burden and cost of field engineering and on-site fabrication.

TYPE K does all the work, assumes the responsibility for a successful retrofit, and guarantees your satisfaction so you can be assured of a perfect solution every time.

Whether you are dealing with windboxes, SOFA boxes, burner and SOFA nozzle tilts, coal mills or critical fans, TYPE K has the experience and the right solution to help you improve your operations by *reducing* your maintenance, *lowering* your cost, and *increasing* your performance.



TYPE K Damper Drives are the Solution!

TYPE K Damper Drives have provided exceptional performance in thousands of applications on Tangential-Fired Boilers throughout the Electric Power Industry. Our drives are well established as a leader in improving operations by reducing maintenance and increasing overall accuracy and reliability.

Our well engineered drives thrive in the most adverse conditions of high temperature, vibration, fly ash, and coal dust. Our drives will provide long-term trouble-free operation.

Our highly trained personnel take total control of your drive retrofit experience. From the initial field survey, design and manufacturing process, to the on-site start-up assistance and on-going customer support, TYPE K guarantees the result and provides a 3-year product warranty for all of our drives.



Does this picture look familiar?

If you are like many who have replaced their old control system with a DCS and are now using smart digital process transmitters, why are you still using these old-style windbox damper drives to regulate your boiler's fuel/air mixture?

Old-style pneumatic actuators simply cannot deliver the performance available from TYPE K's unique and highly engineered windbox damper drives.

Accurate and repeatable secondary air (Fuel-Air and Aux-Air) damper positioning is regarded as critical in improving NOx emissions and meeting CAA 1990 requirements.

TYPE K Drives are designed to operate indefinitely at ambient temperatures up to 300°F. NEMA 4X rated packaging insures that all internal components will remain clean and unaffected by the harshest local environmental conditions.

Typical Tangential-Fired Boiler Applications



Fuel Air & Aux Air Drives



SOFA BOX Drives



Nozzle Tilt Drives



Pulverizer Drives



F.D. Fan Drives



I.D. Fan Drives

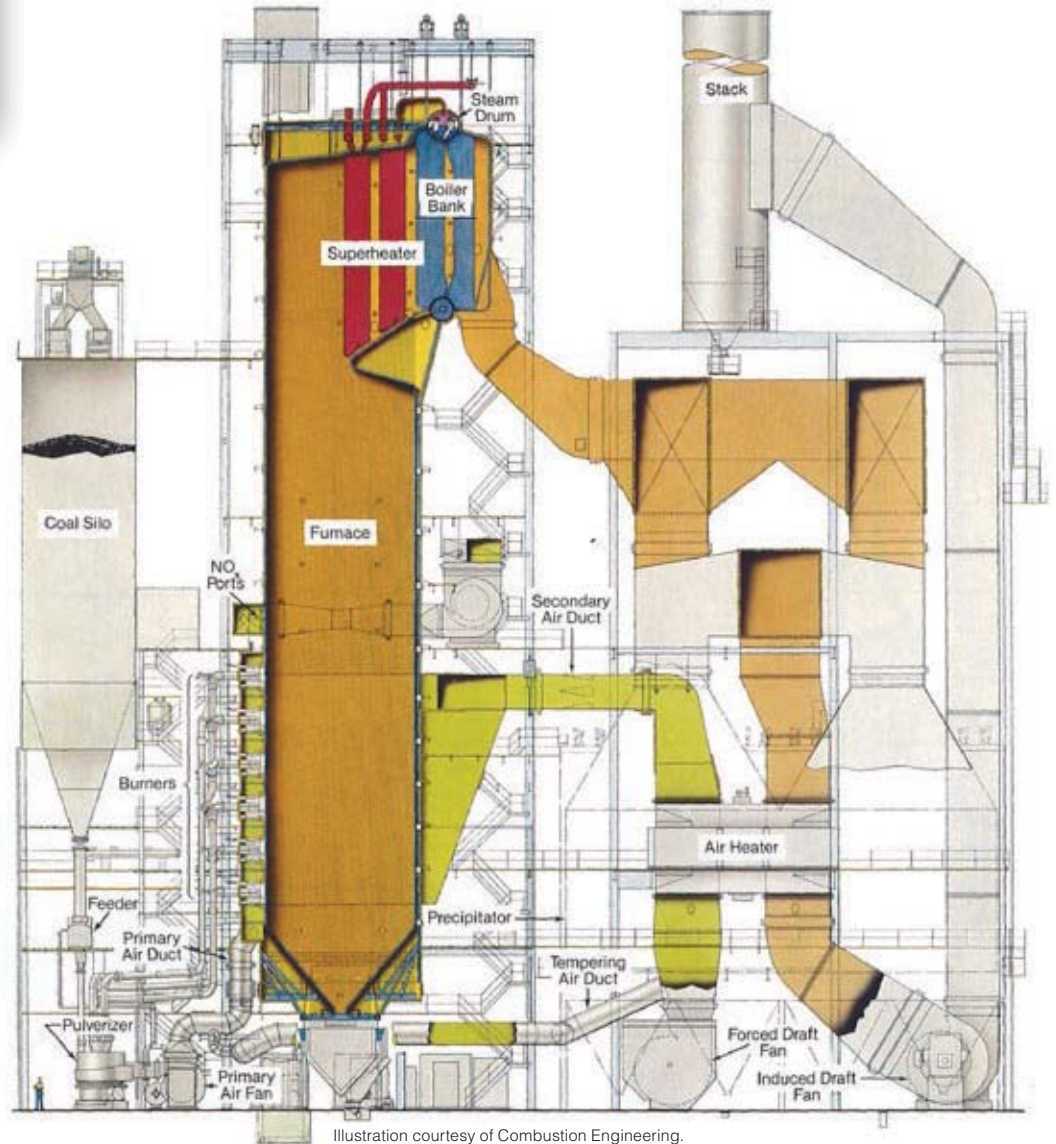


Illustration courtesy of Combustion Engineering.



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www.typek.com

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PM Series
Rotary

Pedestal Mount

- Direct “Drop-In” design matches existing drive
- Re-use existing link rod and clevis
- Highly accurate & responsive
- Simple maintenance-free operation



DM Series
Rotary

Direct Mount

- Mounts directly to boiler wall of damper frame
- “No Play” connection to damper shaft
- Highly accurate & responsive
- Simple maintenance-free operation



LX Series
Linear

LX Linear Drive

- The ultimate rod gland cleaning system
- 1.5” to 24” bore/any practical stroke
- Exact retrofit to match existing drive
- O/C or modulating service



VA Series
Rotary

Valve Automation

- Automate butterfly, ball and plug valves
- Simple one-moving part design
- Retrofit linkage available with drive
- Complete range of O/C & modulating controls



JR Series
Linear

JR Linear Drive

- Wall-Fired boiler secondary air control
- Precise ‘Drop-In’ replacement for electric drives
- Precise modulating control
- Remote-mount digital controller



AH Series
Rotary

Ash Hopper

- High-Cycle Ash Hopper solution
- Replace unreliable diaphragm drums or pistons
- Totally-enclosed, maintenance-free design
- Rated for 300°F



CT Series
Linear

CT Series

- T-Fired boiler secondary air control
- Trunnion-mount pivot style design
- For high-temperature and harsh environments
- Precise modulating control



Controls & Accessories

Controls

- S-800 digital “Smart” & C-400 conventional positioners
- DPC-777 remote mount digital positioners

Accessories

- Windbox bearing upgrade, air filters
- 950 Series loading station, connecting rod linkage

Your Representative is:

TYPE K Damper Drives

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www.typek.com



Our drives are proudly made in Dallas Texas, USA