

KORLOY Anti-Vibration Tool

# Damping Pro



## Special designed unique Anti-vibration system

- Application of special design provides excellent Anti-Vibration effect and optimized for Overhang work
- Capable to elevate Feed comparing to standard arbor with stable machining



# Damping Pro



KORLOY Anti-Vibration Tool

## KORLOY Damping Pro

- The application of a special design provides an excellent Anti-Vibration effect and is optimized for Overhang work
- Capable to elevate Feed comparing to standard arbor with stable machining
- Longer tool life and noise decrease
- Provides a solution for Mold, Deep Cavity machining, and Heavy-duty work

### Features



- Anti-Vibration : Exclusively designed Anti-Vibration structure
- Material : Special alloy steel
- Anti-Vibration body : Application of High density damper
- Overhang : Capable for 2D ~ 5D
- Coolant : Inner coolant is capable

- Size : Various types and sizes are applicable



BT Type



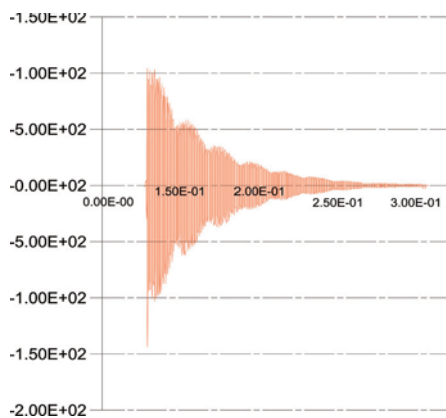
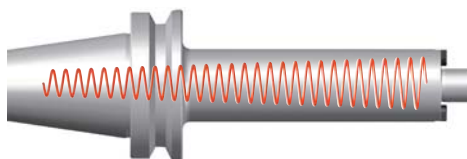
HSK Type



SK Type

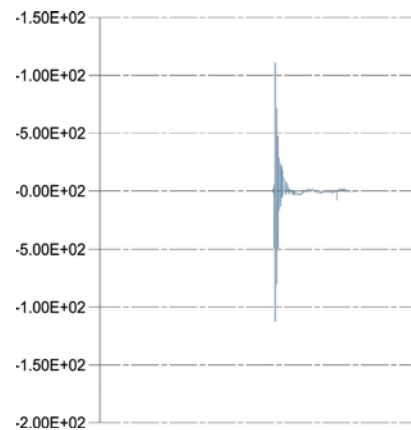
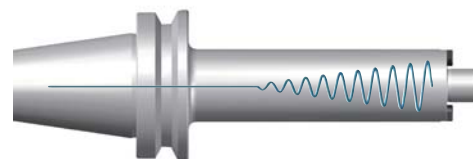
### Comparison of Vibration damping time

Standard Arbor



Longer Vibration damping time / Chattering is caused while Overhang work

KORLOY DAMPING PRO



Short Vibration damping time / Performance is 2~3 times better than standard arbor

## Big size Crankshaft machining example

General arbor :  $ap=2\text{mm}$

KORLOY DAMPING PRO :  $ap=4\text{mm}$  available **2 times better productivity**



- **General arbor**

Cutting condition :

$vc = 100 \text{ m/min}$

$fz = 1.15 \text{ mm/t}$

$ap = 2\text{mm}$

- **KORLOY Damping Pro**

Cutting condition :

$vc=100 \text{ m/min}$

$fz=1.15 \text{ mm/t}$

## Side milling cutter machining example

Faulty occurrence on size and surface roughness by the vibration, when use the general arbor

Using KORLOY DAMPING PRO, good size and surface roughness



- **General arbor**

Cutting condition :

$vc = 50 \text{ m/min}$

$fz = 1.0 \text{ mm/t}$

$ae = 20\text{mm}$

- **KORLOY Damping Pro**

Cutting condition :

$vc=100 \text{ m/min}$

$fz=1.0 \text{ mm/t}$

$ae = 20\text{mm}$

## Application Example

- **Mold machining**

Better productivity than general arbor



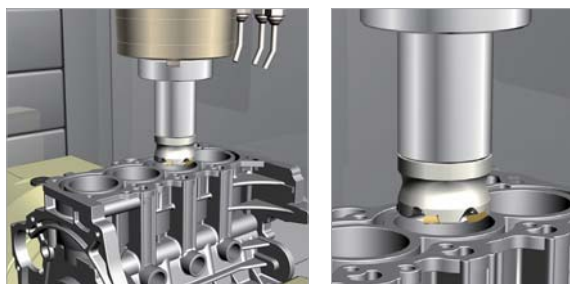
- **Side milling cutter machining**

Excellent performance in the deep grooving



- **Deep-hole Boring machining**

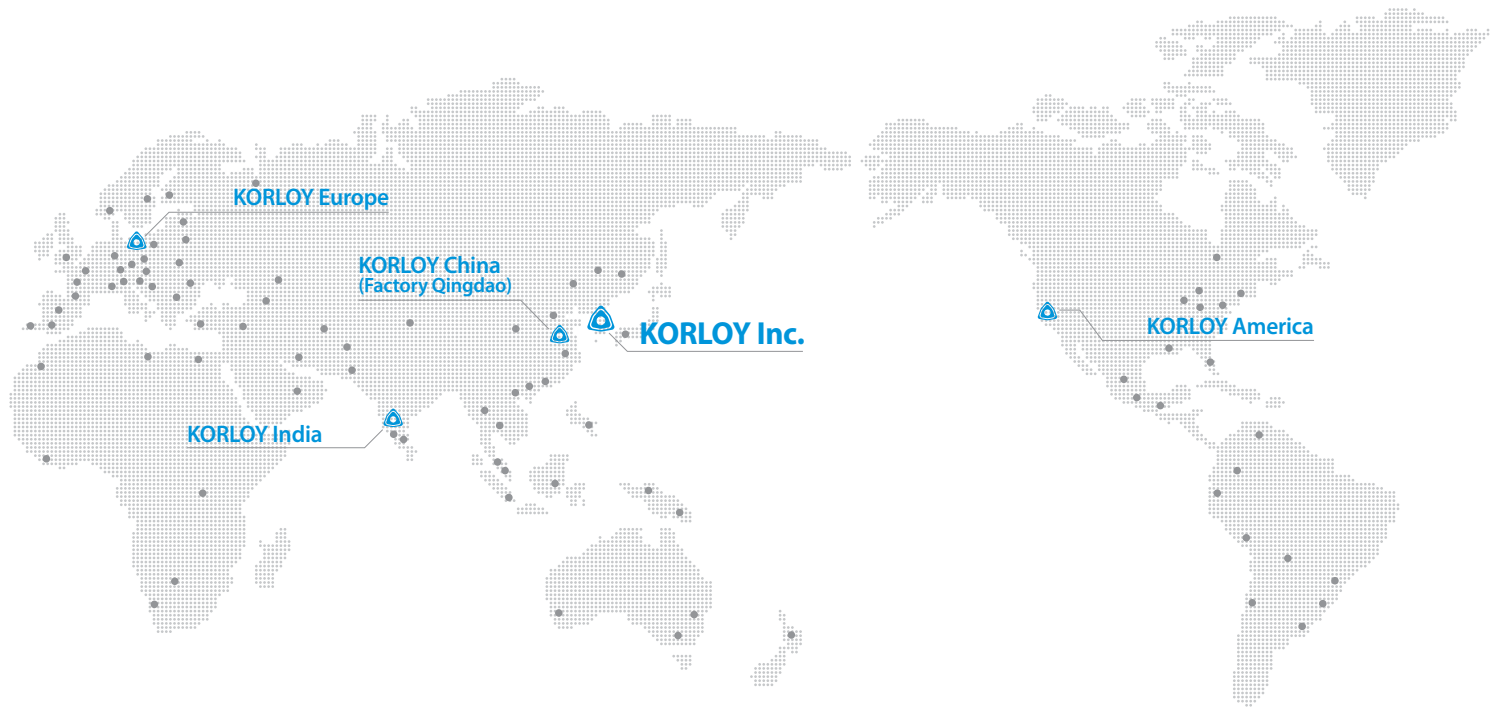
Better surface roughness and machinability than General arbor



- **Facing for long depth**

Better productivity and surface roughness than General arbor





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