

The products introduced by JTEKT are
Hot Press Rolling forgings.

**Reduce
Material costs**

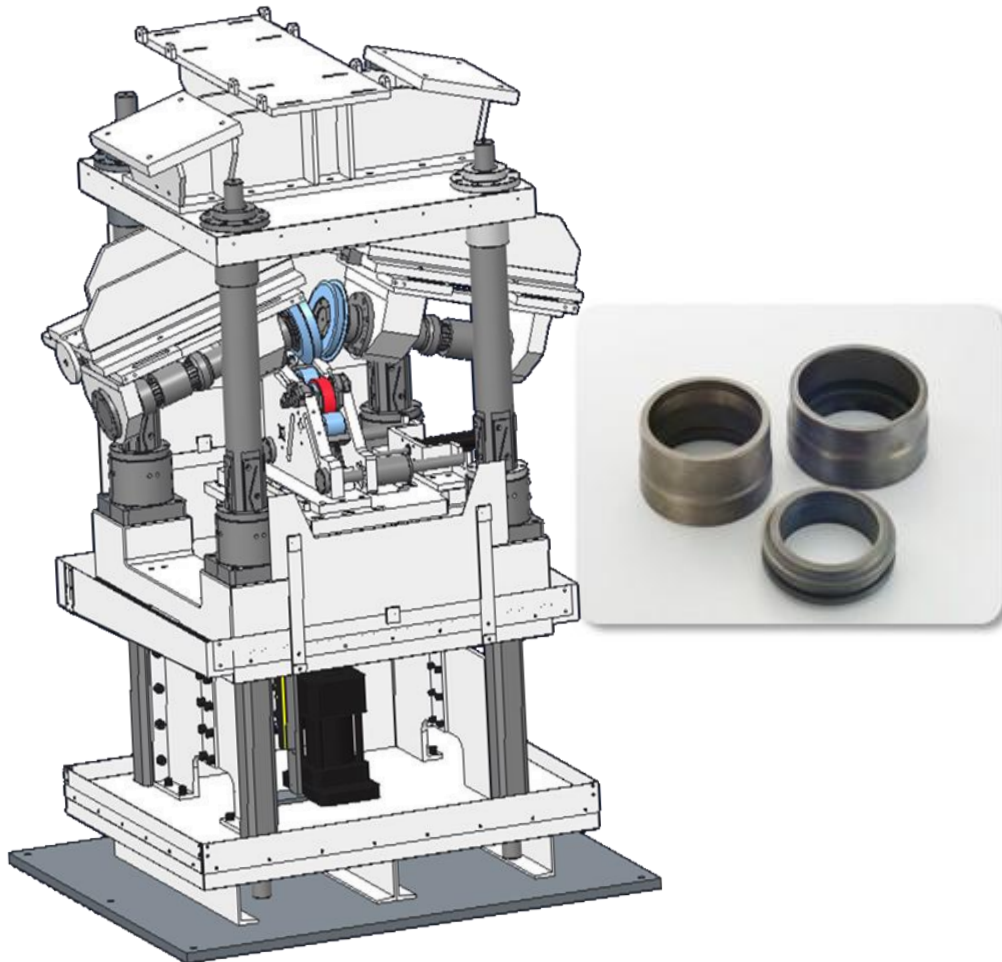
**Reduction
Machining Time**

**High strength
Material**



Contributes to your **resource saving** activities!

Point: Closed type vertical Hot Press rolling forging by JTEKT Original Method



Made by Original Hot rolling machine

Reduce Material costs

Highly efficient construction method

Reduction Machining Time

Near net shapes

High strength Material

Reduce materials and Near net shapes

Method/Process	Cutting	Upsetting	Forming	piercing	Finished forging	
Made by Press forging Input weight : 4kg Forging weight : 3kg				Heavy Weight scrap 		
Made by Hot Press rolling Input weight : 3kg Forging weight : 2.5kg	 ▲1kg			Light weight scrap Rolling →		Near net shaping Inside: Deep groove shapes Outside: Stepped shapes

Review	Cycle time	Material loss	Forged shape		Costs
Press	High speed 4seconds/piece	Big loss 1kg		Simple shapes	Forged allowance Max 9mm High Material Costs 4kg
Press Rolling	Middle speed 8seconds/piece	Small loss 0.5kg ▲50%		Near net shapes Deep groove shapes	Forged allowance Max 4.5mm ▲50% Low Material Costs 3kg

The press rolling forging method can significantly reduce the amount of material used and shorten the Cycle time.

High strength materials



Rear planetary ring gear



Front planetary ring gear



One-way clutch inner race

Superior metal flow yields high-strength materials.



Bearing outer/inner races



**Automatic transmission/eAxle
gear**

Contributes to your **resource saving activities!**