

Compressive Type

Superroll SE Overview

Overview

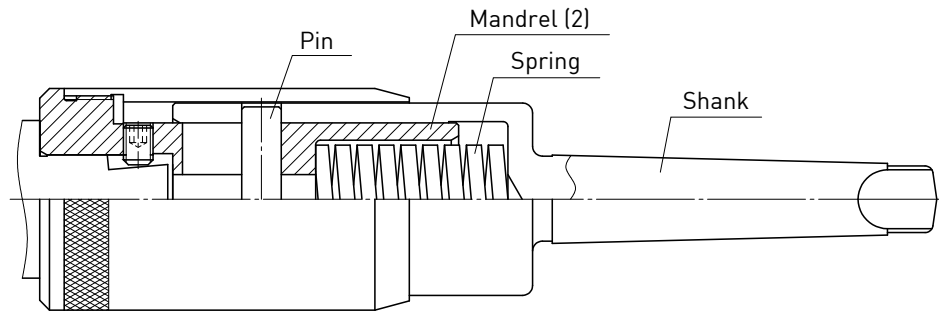
Superroll SE is for burnishing outer taper surface.

This type has compression mechanism installed within Superroll.

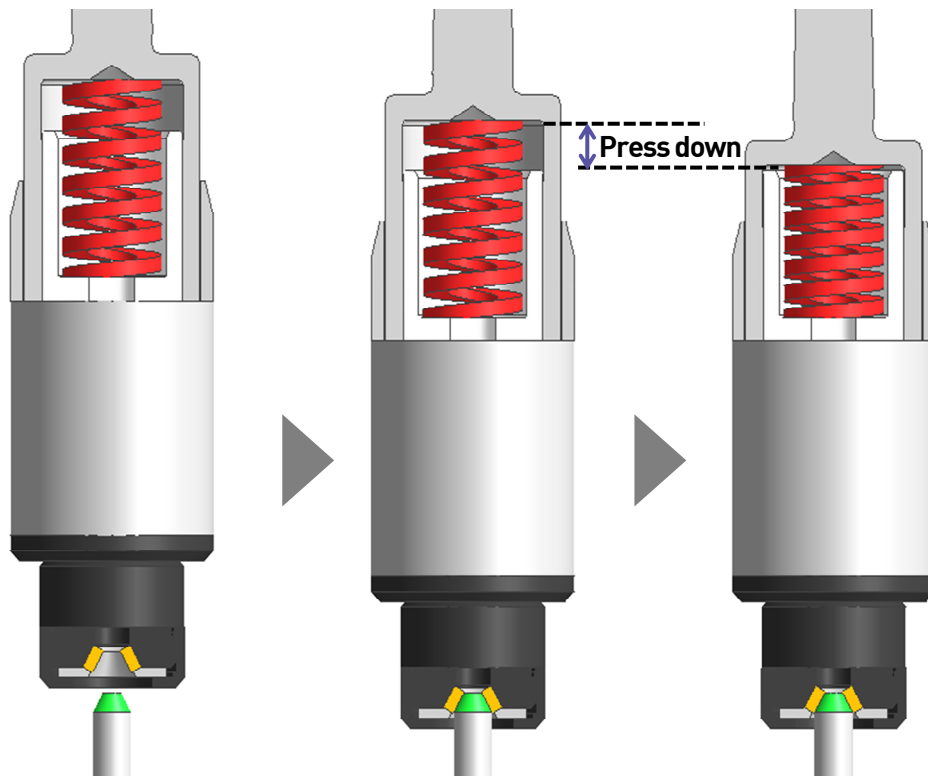
After rollers make contact with a workpiece, applies a pre-determined compression to Superroll SE by deflecting a spring, to generate a load required for burnishing.

Tool tips parts (Head assembly) are designed and made to suit the shape of customer's workpieces.

Compression shank assembly mechanism



Burnishing procedure



(1) Install Superroll SE to a driving unit.
Next, align the center of a workpiece and Superroll SE.

(2) Operate Superroll SE in a normal rotation direction at a pre-determined speed, and make contact with rollers and a workpiece.

(3) After making contact with a work piece, apply a pre-determined compression and dwell.

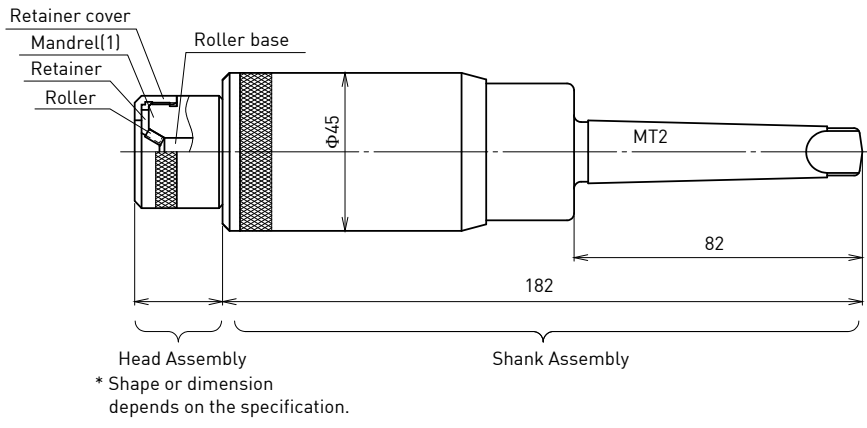
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Superroll SE Overview

Exterior view

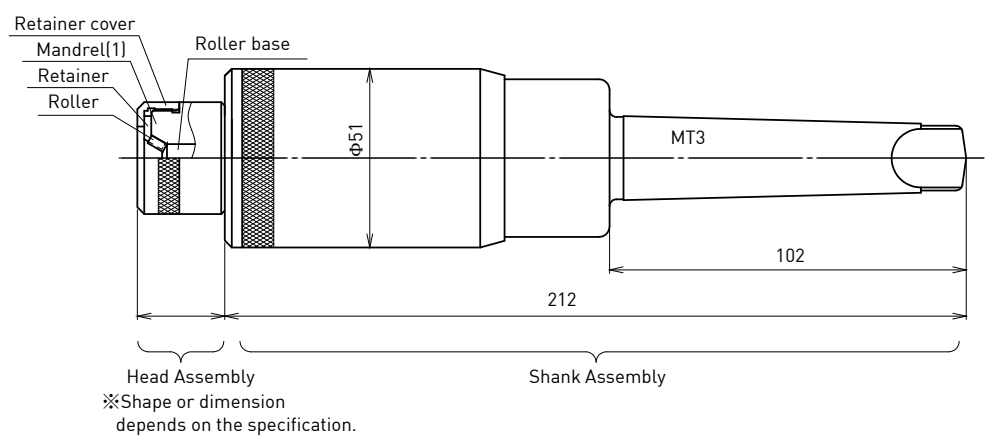
Tool tips parts (Head assembly) are designed and made to suit a shape of customer's workpieces. Two types of shank assembly are available to suit a required load for burnishing. The optimum specifications will be proposed according to the workpiece shape and material.

Tool size $\phi 45$ type



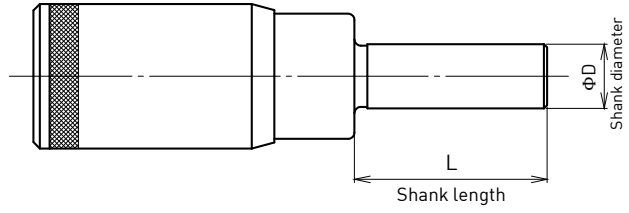
Tool size	Spring (Max load)
$\phi 45$	190N
	390N
	700N
	1.4kN
	2.3kN
	3.4kN
$\phi 51$	5.9kN

Tool size $\phi 51$ type



Straight shank type

Straight shanks are also available as special shank if necessary. Select from the Recommended straight shank sizes in the chart below. For requests for shank sizes not included in the chart, contact your nearest sales office by using the catalog inquiry sheet, or use the inquiry form on our website.



Tool size	Recommended straight shank size		
$\phi 45$	$\phi 20 \times 60L$	$\phi 25 \times 60L$	$\phi 32 \times 70L$
$\phi 51$			