

## WS-series, spring advance work supports



- Spring advance work support contacts workpiece as it is loaded into fixture
- Low pressure lock-up capability enables the use of machine tool hydraulic systems
- High rated support capacities allow for more compact fixture design
- Corrosion resistant materials, compatible with most coolants and environments
- Threaded and manifold air vent ports allow fixturing that prevents coolants from being drawn into the system
- Minimized deflection increases machining accuracy
- Multiple mounting configurations for design flexibility

Max. Support Force	Support Plunger Stroke	Manifold Mount	Threaded Body	Lower Flange	Cartridge Style	Plunger Contact Spring Force		Oil Capacity	Max. Oil Flow
						N			
kN	mm					ext.	retr.	cm <sup>3</sup>	l/min
7,3	9,7	<b>WSM-72</b>	<b>WST-72</b>	–	<b>WSC-72</b>	8,9	25,8	0,7	0,7
11,1	9,7	–	–	<b>WSL-112</b>	<b>WSC-112</b>	15,1	23,1	1,0	1,0
22,2	10,4	–	–	<b>WSL-222</b>	<b>WSC-222</b>	9,3	86,8	3,1	3,1
33,4	13,5	–	–	<b>WSL-332</b>	–	17,8	77,9	3,9	3,9
44,5	16,5	–	–	<b>WSL-442</b>	–	14,7	97,9	4,9	4,9