

## CSM-series, manifold cylinders



Compact fixture-integrated positioning and holding  
Design eliminates the need for fittings and tubing,  
minimizing space requirements and facilitating easy  
removal of chips and dirt

Minimal cylinder height relative to the plunger stroke  
enables extremely compact fixture designs

Cylinder body is fully recessed within the fixture allowing  
the workpiece to be positioned near-flush with the fixture  
surface, saving space

Nitro carburized bodies and internal plunger wipers allow  
maintenance-free, high cycle performance

Center-tapped plungers will hold workpiece contact buttons

Single-acting design with spring return simplifies hydraulic  
requirements

Cylinder Capacity	Stroke	Model Number	Effective Area	Oil Capacity	Collapsed Height	Outside Diameter
			cm <sup>2</sup>	cm <sup>3</sup>	mm	mm
1,7	7	<b>CSM-272</b>	0,5	0,4	13,7	M12x1,5
1,7	13	<b>CSM-2132</b>	0,5	0,7	12,3	M12x1,5
5,3	7	<b>CSM-572</b>	1,6	1,1	14,6	M20x1,5
5,3	13	<b>CSM-5132</b>	1,6	2,0	16,6	M20x1,5
11,3	7	<b>CSM-1072</b>	3,3	2,3	21,3	M28x1,5
11,3	13	<b>CSM-10132</b>	3,3	4,3	21,3	M28x1,5
11,3	19	<b>CSM-10192</b>	3,3	6,3	21,3	M28x1,5
17,2	13	<b>CSM-18132</b>	5,1	6,6	23,3	M36x1,5
17,2	25	<b>CSM-18252</b>	5,1	12,7	23,3	M36x1,5
26,9	15	<b>CSM-27152</b>	7,9	11,8	27,5	M42x1,5
26,9	25	<b>CSM-27252</b>	7,9	19,7	28,0	M42x1,5

Note: Seal material: Buna-N, Polyurethane.