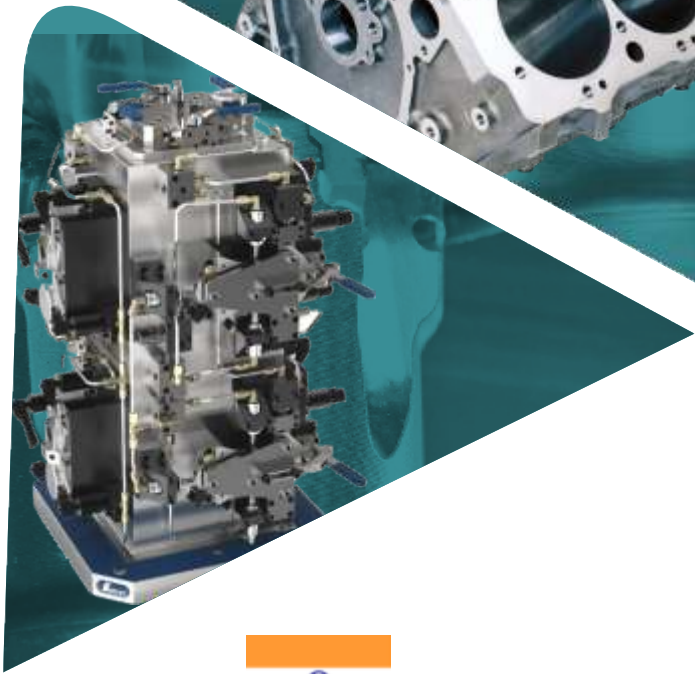
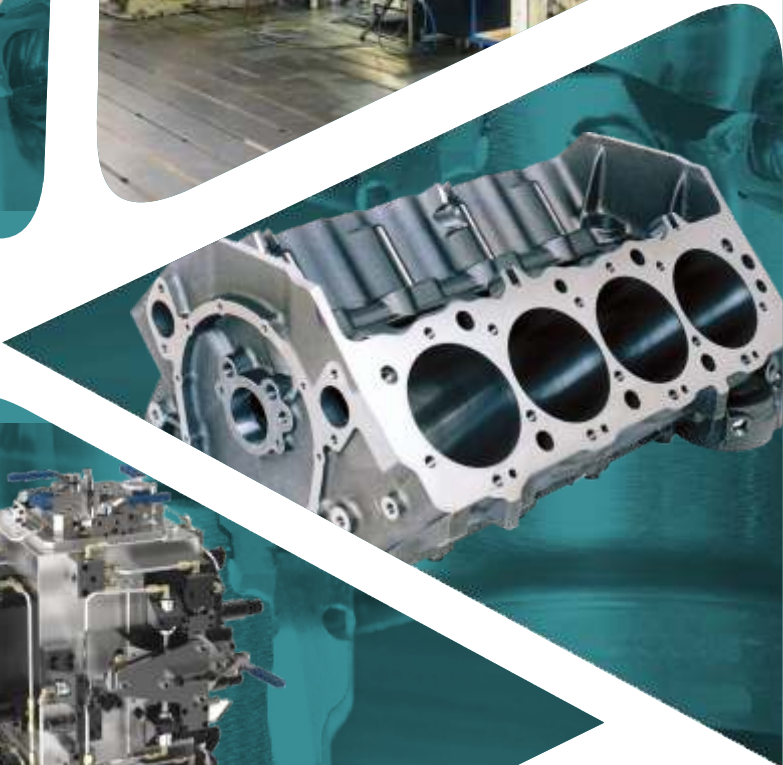


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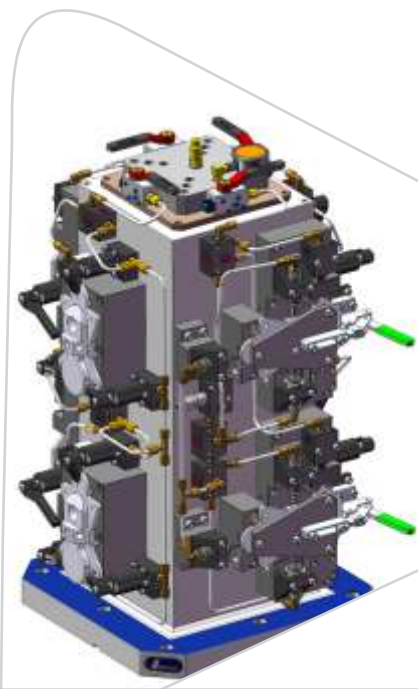
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# WHY SIGMA ?



- ▶ Over 10 years of expertise in successful project delivery in the field of Farm Equipment, Off Highway, Automotive, Defence & Aerospace, Power, Heavy Engineering, Railway and Oil & Gas.
- ▶ From drawing to prove out.
- ▶ From concept to profit.
- ▶ From tooling to fixture everything under one roof.
- ▶ We integrate all aspects of a production process to realise process reliability and productivity at the highest possible level.
- ▶ **SIGMA** is proven partner when it comes to planning new machines , manufacturing processes and optimising existing ones. We always keep all factors in mind – from the optimum clamping system to the most efficient tool path , program and most suitable tool for the application.
- ▶ Complete digital solution, 2D drawing ,3D models ,simulation CAM CAD Assistance.
- ▶ Extensive and complete project solution for Cylinder Block , Cylinder Head, Transmission Case , Centre Housing, Trumpet, Axle Housing, Steering Knuckle, Brake Caliper, Axle Arm , Loader Arm, Baco loader, Swing Frame, King post, Carriage , Planetary Carrier, Drills and End mills for Aerospace Composite material , Turbine Housing, Turbine Shaft and Blades ,New Rail Wheel Turning & Mold base .
- ▶ Expert consulting services for investment decisions on new machines and modern machine shop.
- ▶ Complete solution for new product development.
- ▶ Guarantee of reduced CPC & CYCLE TIME for entire component and machining line.
- ▶ Selection of right product against right application.
- ▶ Debugging your most critical application.
- ▶ We Finally help manufacturing business to deliver productivity, efficiency and profitability.

Consult us to stay ahead of the game...





## VALUES

### 8 Value-Adds that we commit

- ▶ Productivity Improvement
- ▶ Reduced Cost Per Component (CPC)
- ▶ Shorter Lead Time
- ▶ Higher Quality Tools
- ▶ Superior Design That Lead to Performance
- ▶ Right First time
- ▶ In Time Execution
- ▶ Best Service Support



# CASE STUDY- COMPLETE TOOLING ALONG WITH FIXTURE

- ▶ Component- 4 Cylinder Block
- ▶ Material- Cast Iron
- ▶ Machine make and model-BFW HMC HSK A 100
- ▶ Major Operations-Face milling, Boring, Drilling, Tapping
- ▶ Total no of tool assemblies supplied- 133 assemblies
- ▶ Existing Cycle time = 177.07 mins
- ▶ Sigma Cycle time= 139.19 mins
- ▶ Cycle time saving= 37.88 mins
- ▶ CPC saving = ₹ 692 per component

Operation Set-up	Existing		Actual with Sigma	
	No. of Tools	Cycle Time (mins)	No. of Tools	Cycle Time (mins)
OP10	45	54.14	45	41.03
OP20	22	34.33	22	30.03
OP30	32	42.95	33	34.8
OP90	33	40.07	31	29.62
OP150	1	5.58	1	3.71
<b>TOTAL</b>	<b>133</b>	<b>177.07 mins</b>	<b>132</b>	<b>139.19 mins</b>
<b>TOTAL CYCLE TIME SAVINGS PER COMPONENT</b>			<b>37.88 mins</b>	
<b>% reduction</b>			<b>21%</b>	
<b>Savings (Rs./per component)</b>			<b>₹ 692</b>	



## Sigma Toolings India Pvt Ltd

### Marketing & Sales Office :

Survey No. 254, Borhadewadi,  
Dehu-Alandi Road, Moshi, Pune - 412 105 (M.S)

**Call: +91 9699787378**

**Email:** projects@sigmatoolings.com  
info@sigmatoolings.com

**Web:** www.sigmatoolings.com