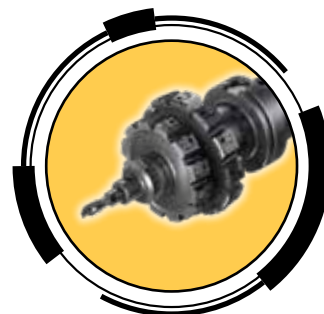
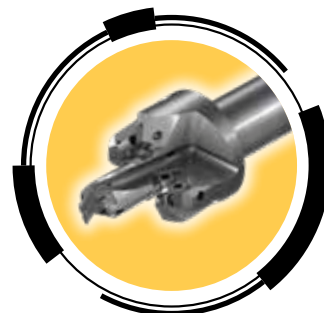
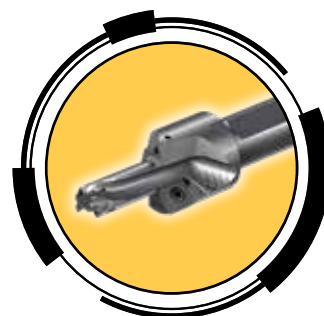


SPECIALLY TAILORED ISCAR HOLEMAKING LINES



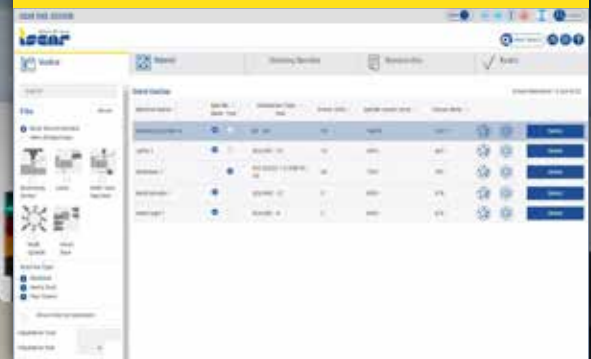
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NEO ITA System Workflow

Select a Machine



Define and customize machine specifications



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ISCAR Delivers Special Solutions for Your Special Demands

Special toolholders are an integral part of our business. In addition to standard tools, **ISCAR** also designs and manufactures special tools. Each of **ISCAR**'s special tools is designed to conform to the customer's parameters and specifications, meeting demands for performance, tool life, cost and ease of use.

ISCAR's engineers work together with customers to ensure that the tool manufactured will be the most suitable for the required application and machining process and will provide optimum output for the client.

ISCAR operates numerous manufacturing facilities around the globe to answer to the demand for special inserts and tools.

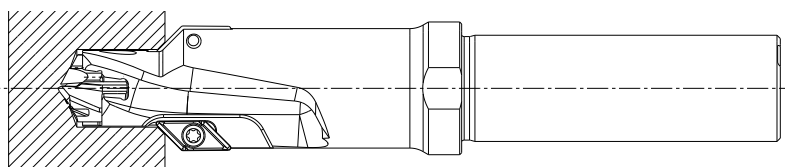




Gear Wheel



Industry Automotive
Special Tool Combines Drilling and Chamfering
Drilling Head ICP 117
Chamfering Insert AOMT 060204-45DT
Material AISI/SAE 8620



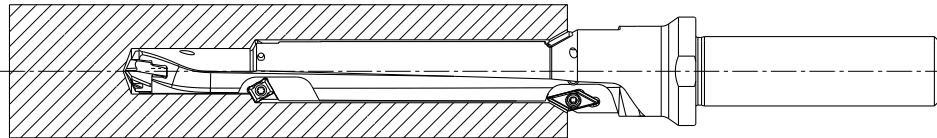
Manufacturer	Competitor	ISCAR
Drill		MN117 015RR-N3R801151157*
Insert		ICP 117 IC908
Insert Grade	Coated	BUENA
Hole Diameter (mm)	11.75	11.75
Hole Depth (mm)	14.4	14.4
Cutting Speed (m/min)	96	96
Spindle Speed (rpm)	2,601	2,601
Feed (mm/rev)	0.25	0.25
Table Feed (mm/min)	650	650
Holes Per a New Cutting Corner	12000	13680
Primary Wear	Flank Wear	Flank Wear
Surface Quality	Good	Good
Chip Type	Comma/Helical	Comma/Helical
Reason for Stopping the Test	Wear	Wear
Metal Removal Rate (cm3/min)	70.5	70.5



Crankshaft



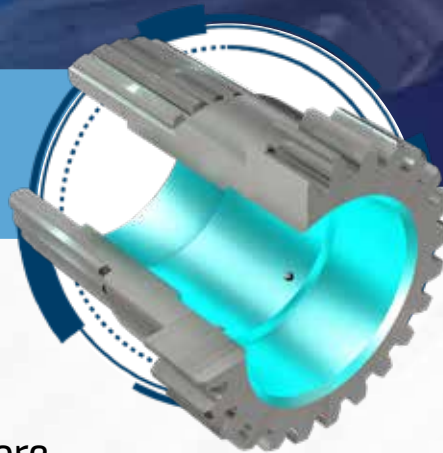
Industry Automotive
Special Tool Combines Drilling and Chamfering
Drilling Head ICP 105
Chamfering Insert AOMT 040204-90DT
 AOMT 060204-45DT
Material AISI/SAE P2
Hardness 245-302 HB



Manufacturer	Competitor	ISCAR
Drill		MN105 100RR-N5R49438
Insert		ICP105
Insert Grade		IC908
Hole Diameter (mm)	10.5	10.5
Hole Depth (mm)	28	28
Cutting Speed (m/min)	73	80
Spindle Speed (rpm)	2,213	2,425
Feed (mm/rev)	0.17	0.15
Table Feed (mm/min)	376	364
Holes Per a New Cutting Corner	300	900
Primary Wear	Thermal Cracks	Notch Wear
Surface Quality	Fair	Good
Chip Type	Comma/Helical	Spiral
Reason for Stopping the Test	Surface Finish	Surface Finish
Metal Removal Rate (cm ³ /min)	32.58	31.5



Output Gear Shaft



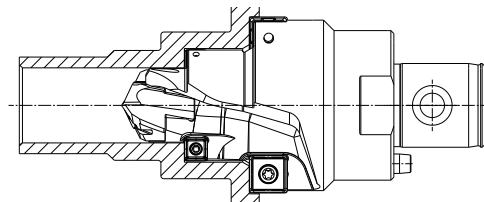
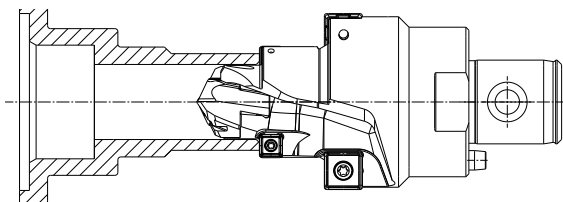
Industry Automotive

Special Tool Combines Drilling, Counterbore,
Phase and Spot Face Drilling

Drilling Head ICK 251

Chamfering Insert SOMX 070305-DT,
SOMT 120408-DT

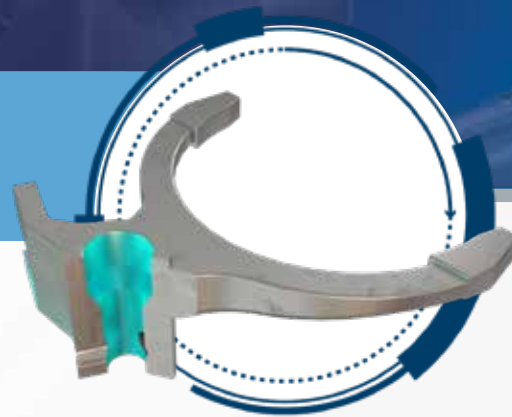
Material 1.5026



Manufacturer	Competitor	ISCAR
Drill		MN251 015BE-N6R80912513*
Insert		SOMT 120408-DT IC808
Insert Grade		ICK251-2MIC908
Hole Diameter (mm)	25.1	25.1
Hole Depth (mm)	45	45
Cutting Speed (m/min)	85	85
Spindle Speed (rpm)	1,078	1,078
Feed (mm/rev)	0.3	0.3
Table Feed (mm/min)	323	323
Holes Per a New Cutting Corner	1000	1000
Primary Wear	Flank Wear	Flank Wear
Surface Quality	Fair	Excellent
Chip Type	Comma/Helical	Comma/Helical
Needed Surface Quality (Ra/Rz)	100	100
Metal Removal Rate (cm3/min)	160.01	160.01



Gear Fork



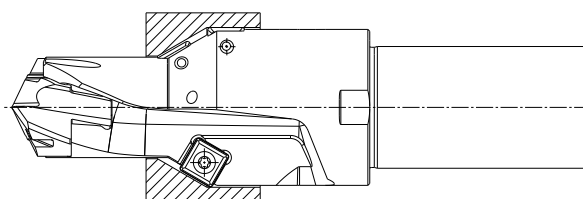
Industry Automotive

Special Tool Combine Drilling, Counterbore,
Chamfering and Spot Face Drilling

Drilling Head ICP 270

Chamfering Insert SOMT 100408-DT

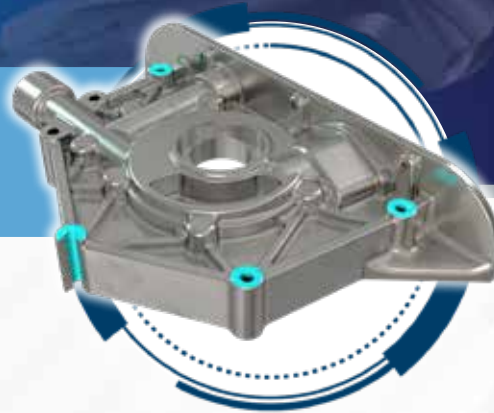
Material 1.5026



Manufacturer	Competitor	ISCAR
Drill		MN270 030RC-N4R5120534
Insert		ICP 270 IC908
Insert Grade		IC908
Hole Diameter (mm)	27	27
Hole Depth (mm)	391	695
Cutting Speed (m/min)	90	80
Spindle Speed (rpm)	1,061	943
Feed (mm/rev)	0.08	0.35
Table Feed (mm/min)	85	330
Holes Per a New Cutting Corner	100	100
Primary Wear	Flank Wear	Flank Wear
Surface Quality	Good	Good
Chip Type	Comma/Helical	Comma/Helical
Reason for Stopping the Test	End of Lot / Series	End of Lot / Series
Metal Removal Rate (cm3/min)	48.6	189



Housing



Industry Automotive

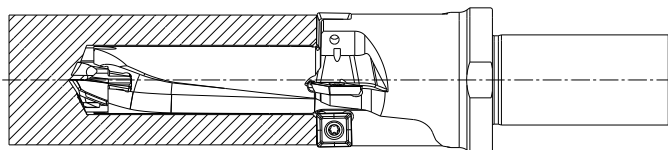
Special Tool Combine Drilling, Counterbore,
Chamfering and Spot Face

Drilling Head HCP 1538-IQ

Chamfering Facing Insert SOMX 070305-DT,

AOMT 060204-45DT

Material DIN 30MnVS6



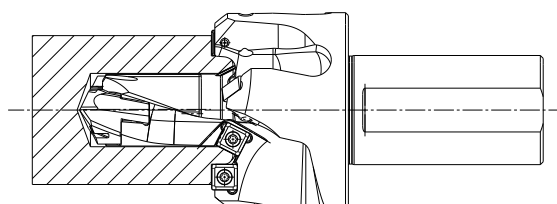
Manufacturer	Competitor	ISCAR
Drill		MN153 051RA-N4R809017030*
Insert		HCP 1538-IQ IC908*
Insert Grade		IC908
Hole Diameter (mm)	15.38	15.38
Hole Depth (mm)	51	51
Cutting Speed (m/min)	96	96
Spindle Speed (rpm)	1,987	1,987
Feed (mm/rev)	0.2	0.28
Table Feed (mm/min)	397	556
Holes Per a New Cutting Corner	200	500
Primary Wear	Flank Wear	Flank Wear
Surface Quality	Good	Excellent
Chip Type	Comma/Helical	Comma/Helical
Metal Removal Rate (cm3/min)	73.82	103.35



Gear Lever



Industry Automotive
Special Tool Combines Drilling,
 Chamfering and Special Profile (Special Insert)
Drilling Head ICP 256
Chamfering Insert SOMT 100408-DT
Material SAE 1541



Manufacturer	ISCAR
Drill	MN256 043FM-N7R682890*
Insert	SCMW 120430-83183 *IC920
Insert Grade	920
Hole Diameter (mm)	25.6
Hole Depth (mm)	50.04
Cutting Speed (m/min)	138
Spindle Speed (rpm)	1,708
Feed (mm/rev)	0.21
Table Feed (mm/min)	351
Holes Per a New Cutting Corner	800
Primary Wear	Flank Wear
Surface Quality	Excellent
Chip Type	Spiral
Reason for Stopping the Test	Wear
Metal Removal Rate (cm ³ /min)	180.86



Main Shaft



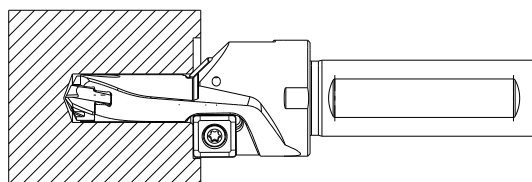
Industry Automotive

Special Tool Combines Drilling,
Chamfering and Counter Boring

Drilling Head ICP 102

Inserts SOMT 09T306, AOMT 060204-45DT

Material SAE 1040



Manufacturer	ISCAR	Competitor
Drill	MN102 027LR-N3R80136368*	
Insert	ICP 102	
Insert Grade	IC908	
Hole Diameter (mm)	10.3	10.3
Hole Depth (mm)	30	30
Cutting Speed (m/min)	58	58
Spindle Speed (rpm)	1,792	1,792
Feed (mm/rev)	0.02	0.02
Table Feed (mm/min)	36	36
Holes Per a New Cutting Corner	1000	150
Primary Wear	Flank Wear	Chipping
Surface Quality	Excellent	Good
Chip Type	Spiral	Tangled
Reason for Stopping the Test	Wear	Wear
Metal Removal Rate (cm ³ /min)	2.99	2.99



Pin Damper Socket



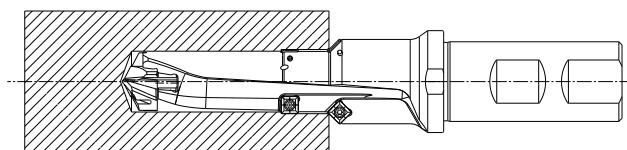
Industry Automotive

Special Tool Combines Drilling, Boring and Chamfering

Drilling Head ICP 190

Inserts SOMX 050204-HD IC808

Material DIN S355J2G3



Manufacturer	Competitor – operation 1	Competitor- operation 1	ISCAR
Drill			MN191 062WB-N5R817010406
Insert			SOMX 050204-HD IC808
Insert Grade			ICP190
Hole Diameter (mm)	20	19	19
Hole Depth (mm)	15	62	62
Cutting Speed (m/min)	145	137	100
Spindle Speed (rpm)	2,308	2,295	1,675
Feed (mm/rev)	0.1	0.1087	0.2985
Table Feed (mm/min)	231	249	500
Primary Wear	Flank Wear	Flank Wear	Flank Wear
Surface Quality	Good	Good	Good
Chip Type	Tight	Tight	Tight
Reason for Stopping the Test	Wear	Wear	Wear
Metal Removal Rate (cm ³ /min)	72.5	70.74	141.79



Steering System Part



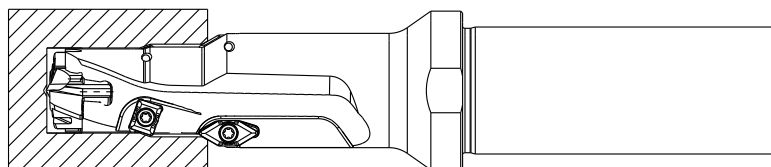
Industry Automotive

Special Tool Combines Drilling, Boring and Chamfering

Drilling Head FCP 134

Inserts AOMT 040204-90DT, AOMT 030204-N-30DT

Material SCM420



Manufacturer	Other - Actual	ISCAR	ISCAR - Test2
Drill	Ø13.4 Solid Drill	MN134 025RA-N5R83380*	MN134 025RA-N5R83380*
Insert		FCP 132	FCP 134
Insert Grade		IC908	IC908
Hole Diameter (mm)	13.4	13.4	13.4
Hole Depth (mm)	22	22	22
Cutting Speed (m/min)	50	70	70
Spindle Speed (rpm)	1,188	1,663	1,663
Feed (mm/rev)	0.12	0.2	0.2
Table Feed (mm/min)	143	333	333
Holes Per a New Cutting Corner	1000	1200	1200
Primary Wear	Crater Wear	Flank Wear	Flank Wear
Surface Quality	Good	Good	Good
Chip Type	Comma/Helical	Comma/Helical	Comma/Helical
Reason for Stopping the Test	Wear	Wear	Wear
Metal Removal Rate (cm ³ /min)	20.1	46.9	46.9



Turbine Bearing Ring



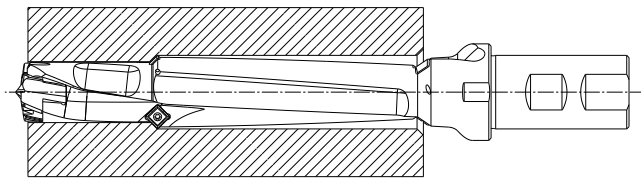
Industry Wind Power

Special Tool Combines Drilling, Boring
Chamfering, the Tool Design with Low Helix Flute
for Increased Rigidity and Hole Accuracy

Drilling Head FCP 265

Inserts SOMX 070305-DT

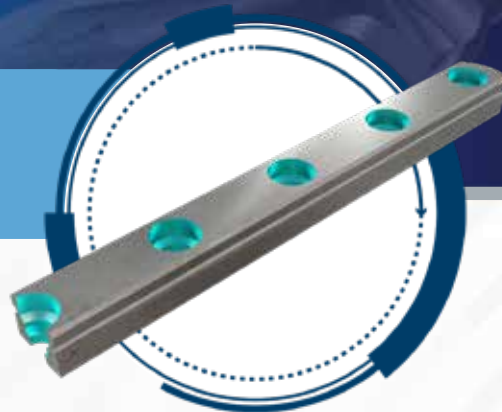
Material DIN 42CrMo4



Manufacturer	Competitor	ISCAR
Drill		MN265 176WC-N5R80914747*
Insert		FCP 265 IC908
Insert Grade		IC908
Hole Diameter (mm)	26.5	26.5
Hole Depth (mm)	172	172
Cutting Speed (m/min)	70	90
Spindle Speed (rpm)	841	1,081
Feed (mm/rev)	0.3	0.3
Table Feed (mm/min)	252	324
Holes Per a New Cutting Corner	168	168
Primary Wear	Flank Wear	Flank Wear
Surface Quality	Good	Good
Chip Type	Comma/Helical	Comma/Helical
Reason for Stopping the Test	Wear	Wear
Metal Removal Rate (cm ³ /min)	139.13	178.88



Common Rail

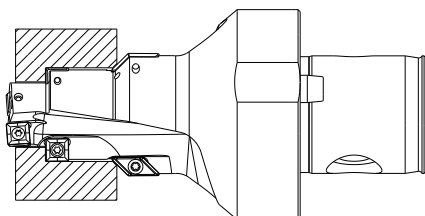


Industry Railway

Special Tool Combines Drilling, Boring and Chamfering

Inserts SOMX 050204-DT, AOMT 060204-45DT

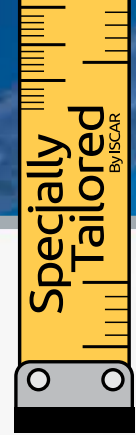
Material: C45



Manufacturer	Competitor	ISCAR
Drill		MR156 027BE-P6R5130447
Insert		AOMT 060204-45DT/SOMX 050204-DT
Insert Grade		IC908
Hole Diameter (mm)	22.3	22.3
Hole Depth (mm)	26.5	26.5
Cutting Speed (m/min)	120	120
Spindle Speed (rpm)	1,713	1,713
Feed (mm/rev)	0.1	0.1
Table Feed (mm/min)	171	171
Holes Per a New Cutting Corner	1000	1000
Metal Removal Rate (cm ³ /min)	66.9	66.9
Hole quality	Poor (out of tolerance)	Excellent



Hub

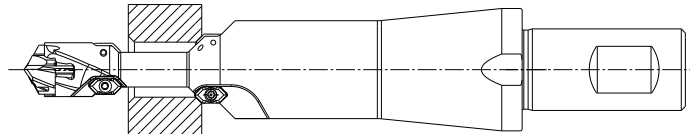


Industry Oil and Gas Industries
Special Tool Combines Drilling, Chamfering
and Back Chamfering

Drilling Head ICP 135

Inserts AOMT 030204-N-45DT

Material: DIN 46MnVs6X2



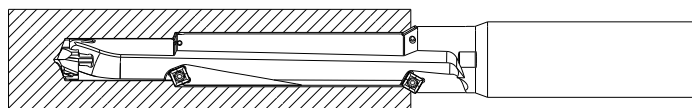
Manufacturer	Competitor	ISCAR
Drill		MN135 018WA-N5R5130499
Insert		ICP 135 IC908
Hole Diameter (mm)	13.5	13.5
Hole Depth (mm)	18	18
Cutting Speed (m/min)	80	100
Spindle Speed (rpm)	1,886	2,358
Feed (mm/rev)	0.1856	0.2545
Table Feed (mm/min)	350	600
Holes Per a New Cutting Corner	2400	2400
Primary Wear	Flank Wear	Flank Wear
Surface Quality	Good	Good
Chip Type	Comma/Helical	Comma/Helical
Reason for Stopping the Test	Wear	Wear
Metal Removal Rate (cm ³ /min)	50.11	85.89



Crankshaft



Industry Automotive
Special Tool Combines Drilling,
 Boring and Chamfering
Drilling Head HCP 140-IQ
Inserts SOMX 050204-DT
Material 16 - Gray Cast Iron (GG)



Manufacturer	Competitor	ISCAR
Drill	Special Solid Carbide	MN140 115RB-N5R801114210
Insert		HCP 140-IQ
Insert Grade		IC908
Hole Diameter (mm)	14	14
Hole Depth (mm)	114.3	114.3
Cutting Speed (m/min)	91	91
Spindle Speed (rpm)	2,078	2,078
Feed (mm/rev)	0.15	0.15
Table Feed (mm/min)	317	317
Holes Per a New Cutting Corner	3000	3000
Primary Wear	Flank Wear	Flank Wear
Surface Quality	Fair	Excellent
Chip Type	Comma/Helical	Comma/Helical
Reason for Stopping the Test	Dimensional Stability	Wear
Metal Removal Rate (cm ³ /min)	48.73	48.73



Differential Case



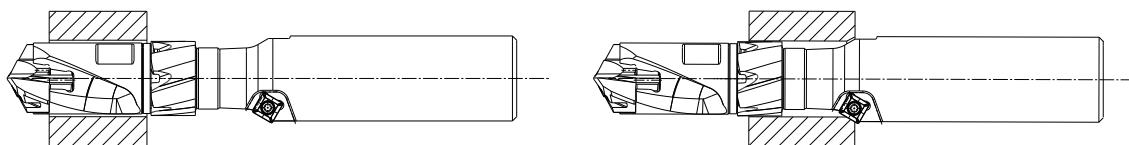
Industry Automotive
Special Tool for Drilling,
Reaming and Chamfering

Drilling Head ICP 172

Reaming Head RM-BN7-17.450-H7LB-908*

Chamfer Insert SOMX 050204-DT

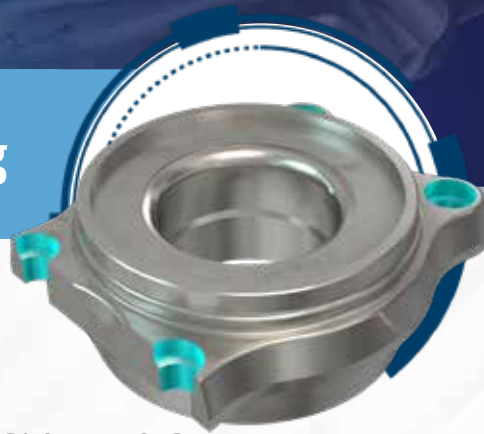
Material Cast Iron FCD600



Manufacturer	ISCAR
Tool	MN140 115RB-N5R801114210
Drill Insert	ICP 172
Reamer Insert	RM-BN7-17.450-H7LB-908*
Insert Grade	908
Pre-Hole Diameter (mm)	17.2
Hole Diameter (mm)	17.5
D Hole Depth (mm)	16
Drill S (rpm)	1650
Drill F (m/min)	460
Reamer S (rpm)	2710
Reamer F (m/min)	1300
Holes Per a New Cutting Corner	130
Surface Quality	Excellent
Reason for Stopping the Test	End of the Test



Wheel Bearing

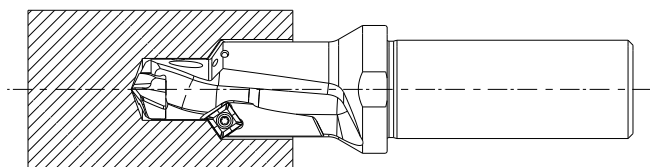


Industry Automotive

Special Tool and Head-Tail Design with Side Lock Screw to Extend Pocket Tool Life in Challenging Applications Such as Unstable Conditions, Poor Coolant, and MQL, etc.

Drilling Head QNP 126-2MSP

Boring Inserts SOMX 050204-DT



Manufacturer	Competitor	ISCAR
Drill		MN126 019RR-N3R-SL-90141
Insert		QNP 126-2MSP-PERTURA
Insert Grade		IC908+PERTURA
Tool/Insert Material	Carbide Coated	Carbide Coated
Hole Diameter (mm)	12.6	12.6
Hole Depth (mm)	11.3	11.3
Cutting Speed (m/min)	131	119
Spindle Speed (rpm)	3309	3006
Feed (mm/rev)	0.2782	0.306
Table Feed (mm/min)	921	920
Holes Per a New Cutting Corner	5500	6000
Primary Wear	Flank Wear	Good Results
Surface Quality	Good	Good
Chip Type	Comma/Helical	Comma/Helical
Needed Surface Quality (Ra/Rz)		
Metal Removal Rate (cm3/min)	114.8	114.7



Gearbox Side Cover Plate



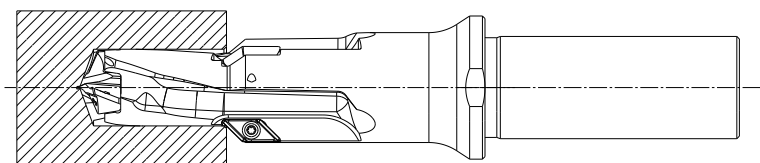
Industry Automotive

Special Tool for Drilling and Chamfering

Drilling head H3P 150-IQ

3 Chamfering Inserts AOMT 060204-45DT

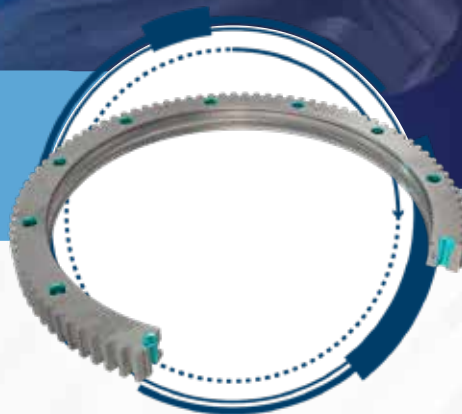
Material GGG JIS FCD450



Manufacturer	Competitor	ISCAR
Drill	Special Solid Drill	M3N150 026RA-N4R9814Z*
Insert		H3P 150
Insert Grade		IC908
Tool/Insert Material	Carbide Coated	Carbide Coated
Hole Diameter (mm)	15	15
Required Hole Tolerance (mm)		
Hole Depth (mm)	26	26
Cutting Speed (m/min)	100	70
Spindle Speed (rpm)	2122	1485
Feed (mm/rev)	0.25	0.5
Table Feed (mm/min)	531	743
Holes Per New Cutting Corner	500	800
Primary Wear	Flank Wear	Flank Wear
Surface Quality	Good	Good
Chip Type	Comma/Helical	Comma/Helical
Reason for Stopping the Test	Wear	Wear
Metal Removal Rate (cm ³ /min)	93.75	131.25



Wind Mill Bearing Ring



Industry Wind Power

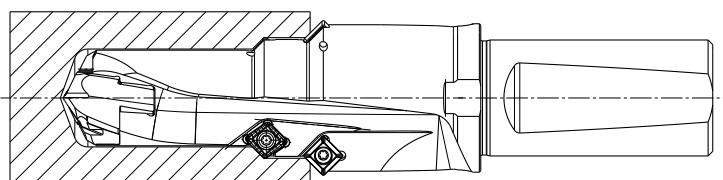
Special Tool for Drilling with Special Head
and Insert to Complete the Required Hole
Profile in a Single Application

Drilling Head ICP 211-R3.0

Boring Inserts CCMT 060208-SM

Chamfer Insert SOMX 060304-DT

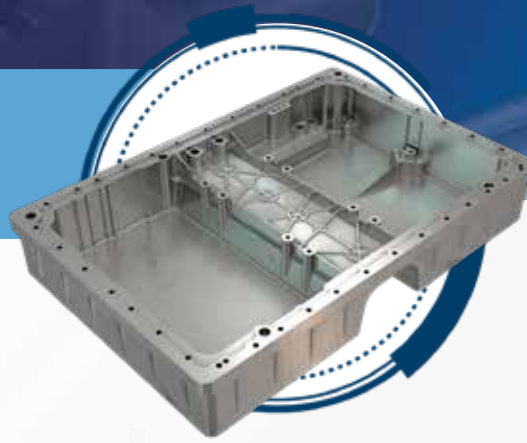
Material 42CrMo4



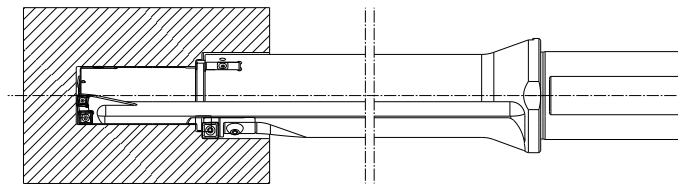
Manufacturer	ISCAR
Drill	MN211 050NB-NSR-5125518
Insert	ICP 211-R3.0-82483*IC908
Insert Grade	IC908
Hole Diameter (mm)	21.1
Hole Depth (mm)	50
Cutting Speed (m/min)	85
Spindle Speed (rpm)	1282
Feed (mm/rev)	0.25
Table Feed (mm/min)	321
Holes Per a New Cutting Corner	500
Tool Life (mm)	78
Primary Wear	Flank Wear
Surface Quality	Good
Chip Type	Comma/Helical
Reason for Stopping the Test	Insert Breakage
No. of Corners Tested	2
Metal Removal Rate (cm ³ /min)	112.09



Electric Car Battery Case



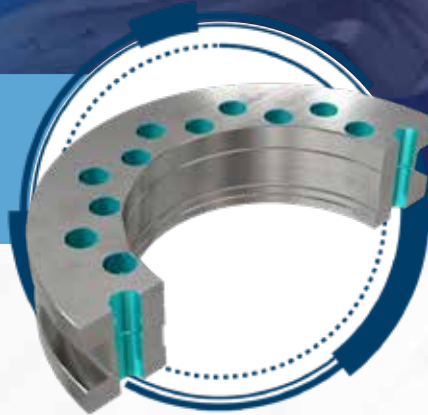
Industry Automotive
Special Tool for Drilling with Two Adjustable Cartridge Boring System
Drilling Head SOMX 060304-DT (H8 pre-hole is needed)
Boring Inserts SOMT 09T306-DT
Pads GPS-06-20-085
Material JIS SCPH-2



Manufacturer	ISCAR
Drill	MR330 533FE-Q5A100633
Insert	SOMX 09T306-DT
Insert Grade	IC908
Hole Diameter (mm)	49
Hole Depth (mm)	500
Cutting Speed (m/min)	60
Spindle Speed (rpm)	390
Feed (mm/rev)	0.1
Table Feed (mm/min)	39
Primary Wear	Flank Wear
Surface Quality	Good
Chip Type	Tight
Reason for Stopping the Test	Wear
Metal Removal Rate (cm ³ /min)	73.5



Slewing Bearing



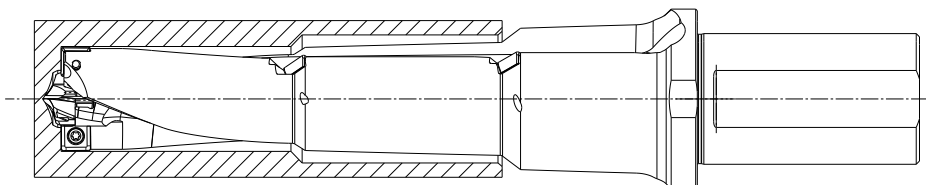
Industry Automotive

Special COMBICHAM Tool for Drilling and
Complete the Big Hole Shape with a Single Application

Drilling Head HCP 175-IQ

Inserts SOGT 09T306-W

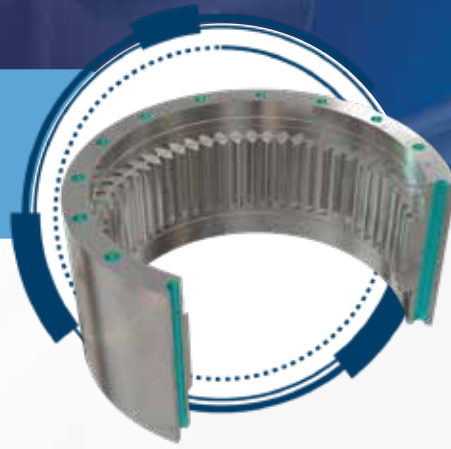
Material DIN 42CrMo4+QT



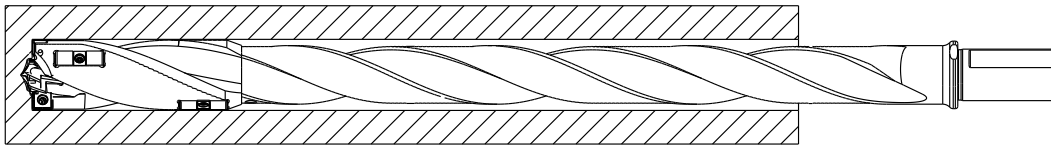
Manufacturer	Competitor	ISCAR
Drill		MNC320 135FD-N7R5137947
Insert		HCP 175-IQ IC908
Insert Grade		IC908
Tool/Insert Material	Carbide Coated	Carbide Coated
Hole Diameter (mm)	32	32
Hole Depth (mm)	135	135
Cutting Speed (m/min)	75	120
Spindle Speed (rpm)	746	1194
Feed (mm/rev)	0.37	0.32
Table Feed (mm/min)	276	382
Holes Per a New Cutting Corner	80	160
Primary Wear	Chipping	Flank Wear
Surface Quality	Good	Good
Chip Type	Comma/Helical	Comma/Helical
Reason for Stopping the Test	Wear	Wear
No. of Corners Tested	20	2
Needed Surface Quality (Ra/Rz)	Ra12,5	Ra12,5
Metal Removal Rate (cm3/min)	222	307.2



Angular Bearing Ring



Industry Wind Power
Special Modular COMBICHAM Solution
for Deep Drilling Applications
Drill head HCP 219-IQ
Insert SOGT 120408-W
Material DIN 41CrMo4



Manufacturer	ISCAR
Drill	MD-MNC 450-219-06*
Insert	HCP 219-IQ IC908
Insert Grade	IC908
Hole Diameter (mm)	45
Hole Depth (mm)	515
Cutting Speed (m/min)	70
Spindle Speed (rpm)	495
Feed (mm/rev)	0.2
Table Feed (mm/min)	99
Holes Per a New Cutting Corner	10
Primary Wear	Flank Wear
Surface Quality	Good
Chip Type	Spiral
Reason for Stopping the Test	Wear
No. of Corners Tested	
Needed Surface Quality (Ra/Rz)	Ra 25
Metal Removal Rate (cm ³ /min)	157.5



Crankshaft



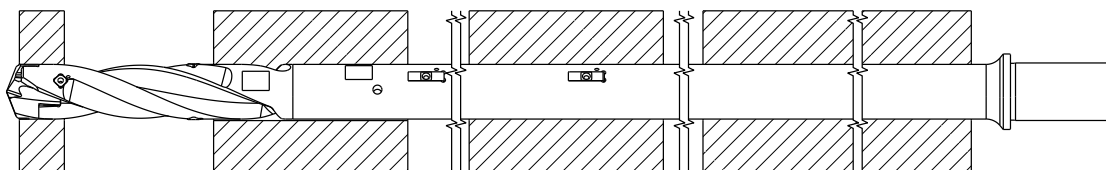
Industry Automotive

Special Tool Design with Short Flutes to Increase Rigidity and Pads for Additional Support in Intermittent Applications

Drilling Head HCP 321

Pads GPS-06-20-100

Material DIN 42CrMo4





Steering Knuckle



Industry Automotive

Special Tool Design with Adjustable Cartridges
for Accurate Drilling and Boring

Drilling Head HCP 320-IQ

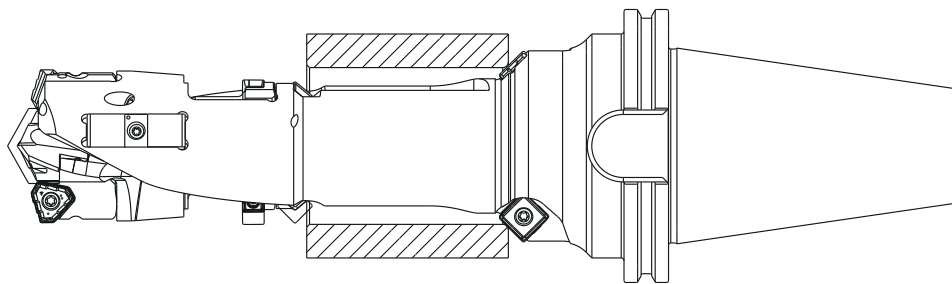
Drilling Insert TOGT 120405

Boring Inserts SOGX 070305-W

Chamfer Insert SOMT 09T306-DT

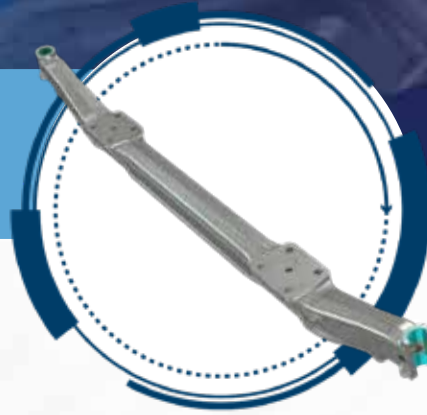
Pads GPS-12-35-250

Machined Material Steel 45





Front Axle Beam



Industry Automotive

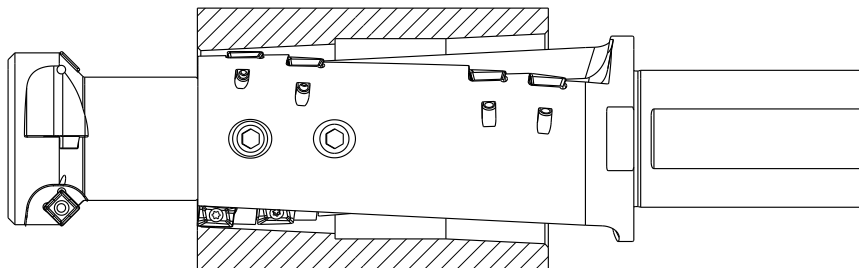
Special Cone Boring Tool Design with Replaceable Chamfer System for Back Chamfering

Boring Inserts APKT 1003PDTR (Recommended for Cast Iron Only as a Boring Insert)

Chamfer Insert SOMX 070305

Material Forged Steel

Hardness 280-310 BHN





Steering Knuckle



Industry Automotive

Special Tool Design for Milling, Adjustable Boring and Chamfering Operations

Chamfer Insert

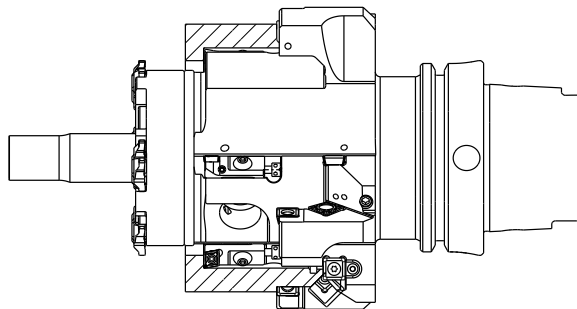
SOMT 09T306-DT

XCMT 10T308-MF

CCMT 060204

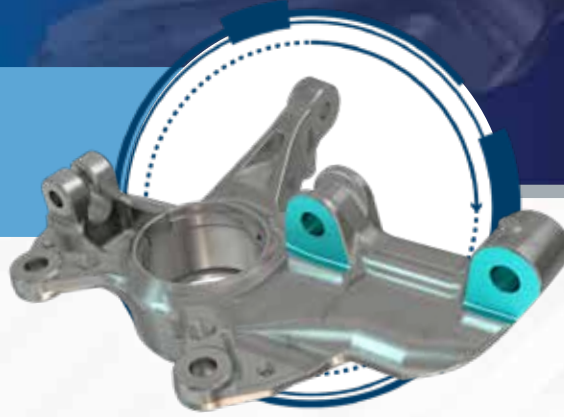
Insert PENTA 24-74262

Material Cast Iron GGG-50





Steering Knuckle



Industry Automotive

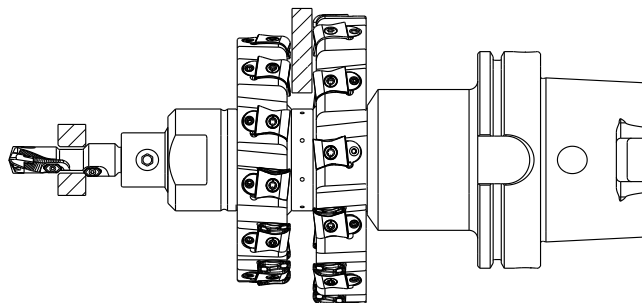
Special Tool Design for Drilling, Chamfering, Back Chamfering and Milling Top and Bottom Surfaces

Drilling Head ICK 123

Chamfer & Back Chamfer Inserts AOMT 030204-N-45DT

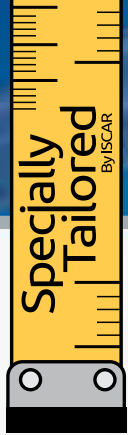
Milling Insert LNAT 150640PN-N MM

Material Cast Iron GGG-50





Steering Knuckle



Industry Automotive

Special Tool Design for Drilling, 3 Steps of Adjustable Boring
Insert and Chamfering

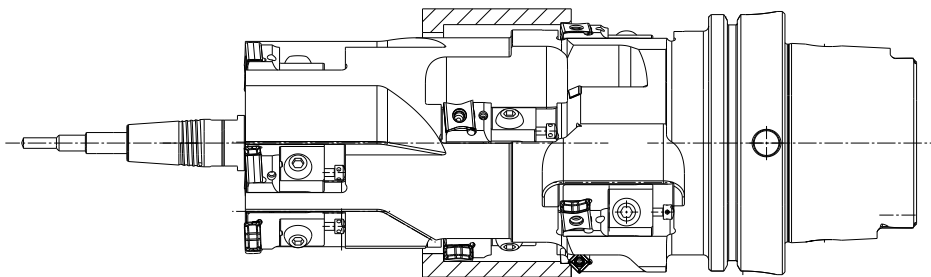
Solid Drill MCD04000 016RFS-1AAFC889744

Boring Inserts

LNKX 1106PN-N MM

SOMX 060304-DT

Material Cast Iron GGG-50





Steering Knuckle



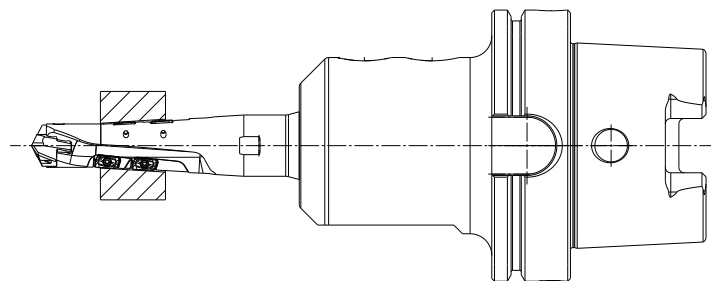
Industry Automotive

Special Tool Design for Drilling and Boring a Cone

Drilling Head ICK 165

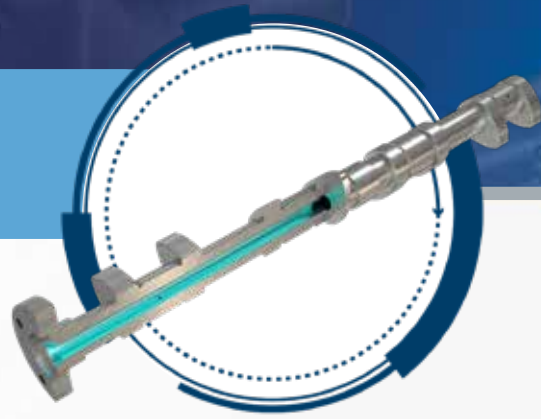
Boring insert HP ANKT 070202P (recommended for cast iron as a boring insert)

Material Cast Iron GGG-50





Shaft

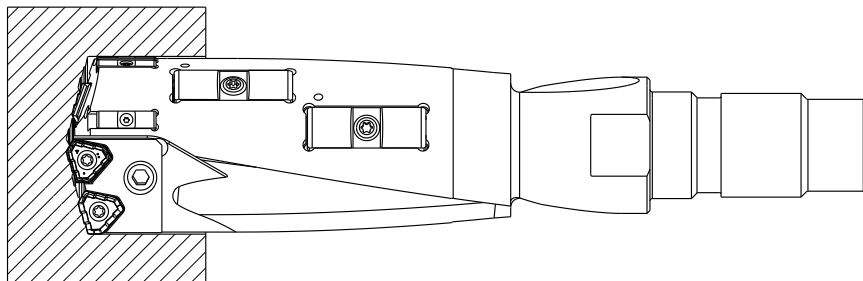


Industry Automotive

Special Tool with Custom Connection Designed
for Precise Deep Drilling Operations

Adjustable Cartridges for Inserts TOGT 120405-DT

Material Steel ISO-P





Motor Housing



Industry Automotive

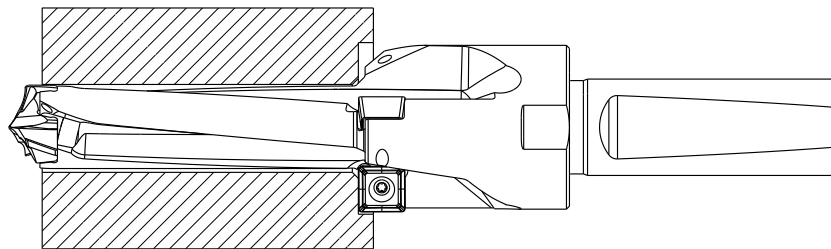
Special Tool for Drilling, Chamfering
and Counter Boring

Drilling Head H3P 146-IQ

2 Boring Inserts SOMX 070305-DT

1 Chamfer Inserts AOMT 060204-45DT

Material Cast Iron ISO-K





Tow Bar



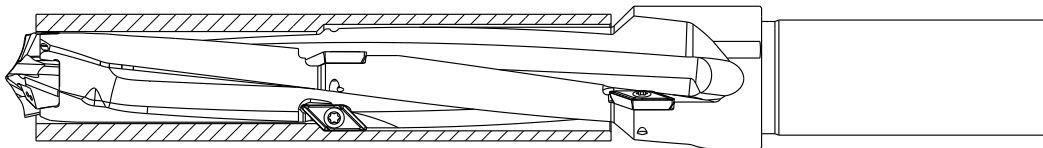
Industry Automotive

Special Tool for Drilling Boring and Chamfering

Drilling Head H3P 160-IQ

Boring and Chamfering Inserts A0MT 060204-45DT

Material 4130

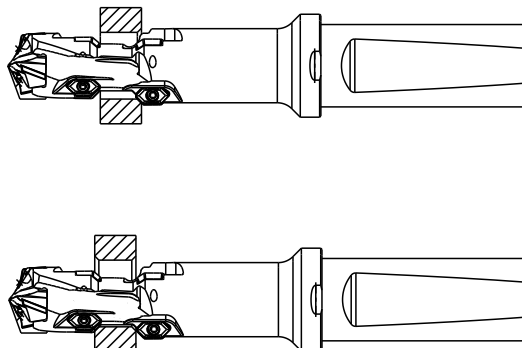




Aluminum Wheel Disk



Industry Automotive
Special Tool for Drilling and Chamfering
Drilling Head H3P 162-IQ
3 Chamfering Inserts AOMT 060204-45DT
Material AlSi7Mg0.3





Landing Gear - Torque Link



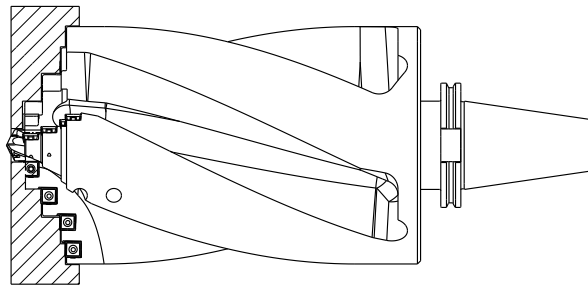
Industry Aerospace

Special Ø189mm Tool for Extremely Large
holes drilling

Drilling Head ICP 265

16 inserts SOGT 120408-W

Material ASTM A668 CLASS J

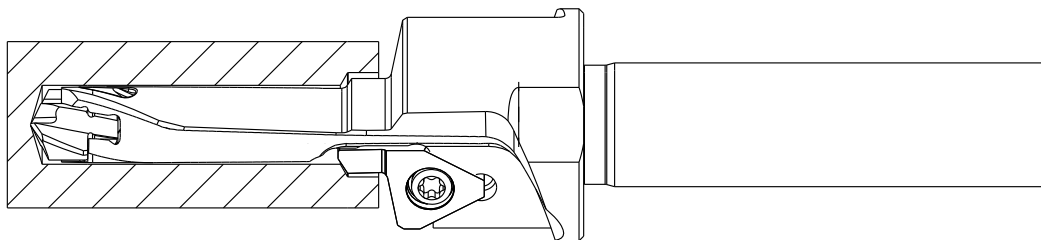


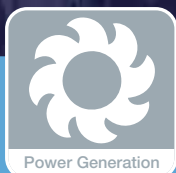


Steering Knuckle



Industry Automotive
Special Tool for Drilling and Special Counter Boring Profile
Drilling Head ICP 051
2 Chamfering Inserts XNUW 6-92624
Material Cast Iron GGG-50

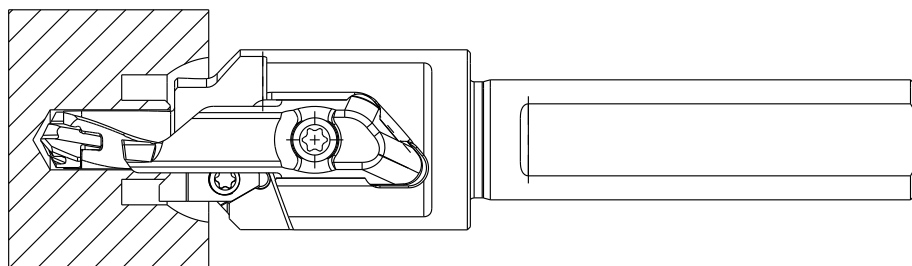




Gas Pipe Fitting

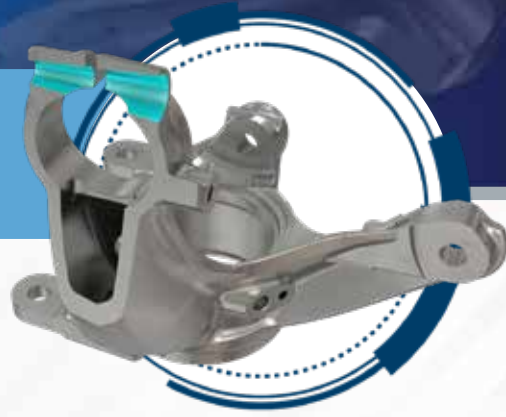


Industry Power Generation
Special Tool for Drilling, Grooving
and Special Chamfer Profile
Drilling Head ICN 060
Groove Insert MIFR 15...
Chamfer Insert XNUW 6...
Material Brass





Steering Knuckle



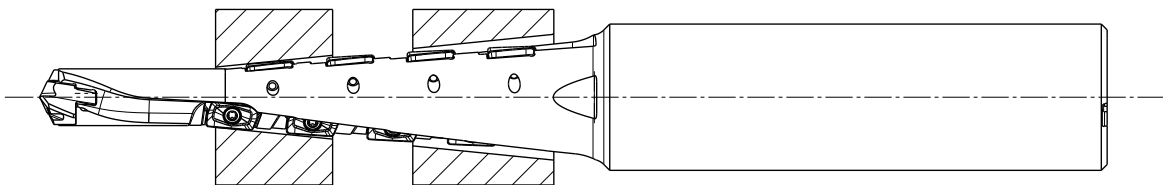
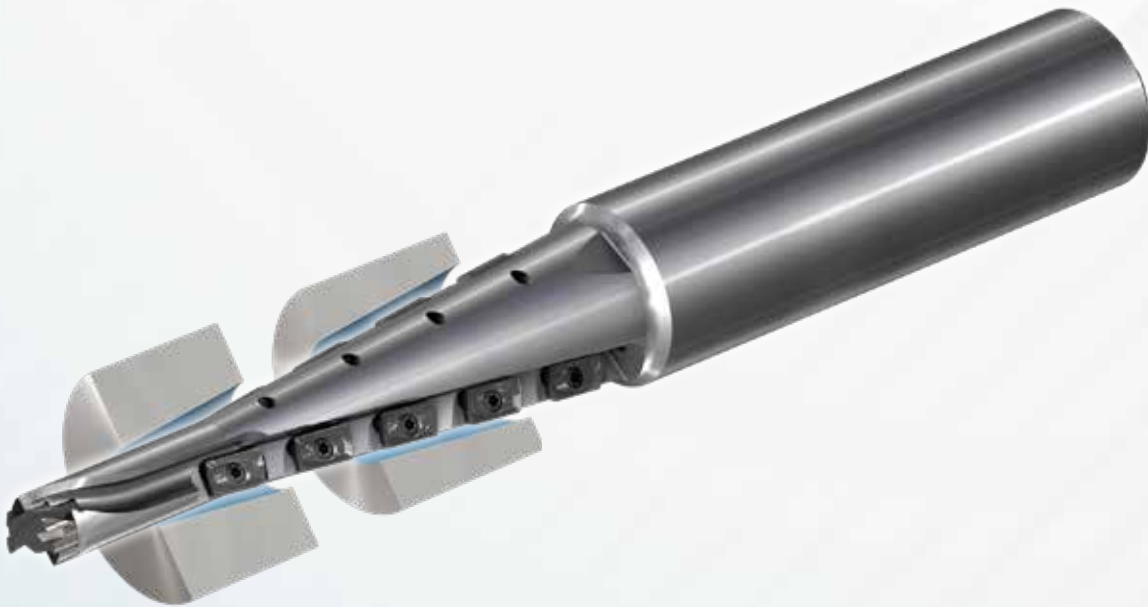
Industry Automotive

Special Tool for Drilling and Cone Boring

Drilling Head ICK 100

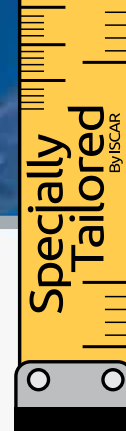
Boring Insert HP ANKT 070202PNTR (for Boring Cast Iron)

Material Cast Iron ISO-K 17





Differential Housing



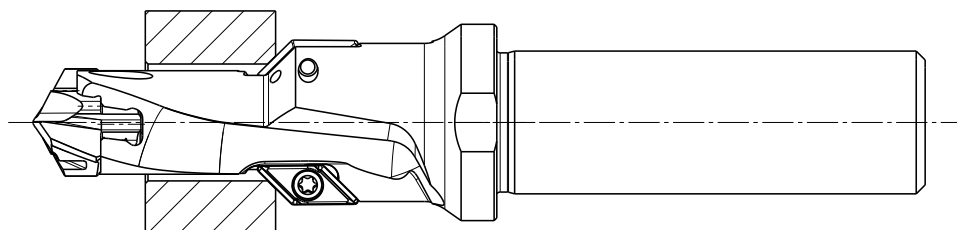
Industry Automotive

Special Tool for Drilling, Chamfering, and Back Chamfering.
Machined by Special SUMOCHAM Heads with a Chamfer on
the Back Side of the Head

Drilling Head ICP 131-BM45

Chamfer Insert A0MT 060204-45DT

Material Steel S45C

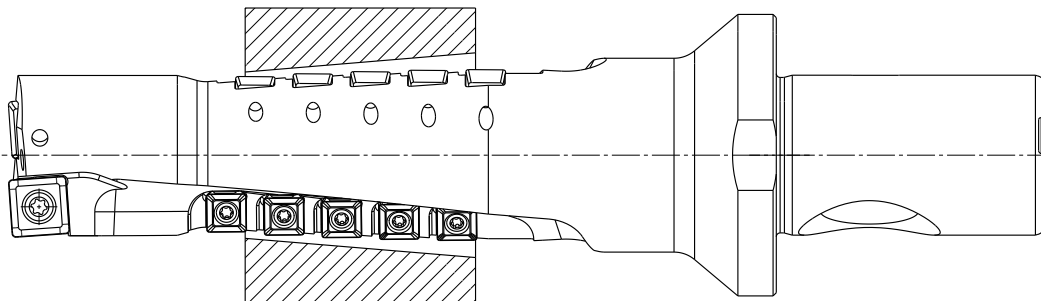




Idler Arm



Industry Automotive
Special Tool for Drilling and Cone Boring
Drilling Inserts SOMT 09T306-DT
Boring Inserts SOMX 060304-DT
Material Forged Steel
Hardness 300-320HB

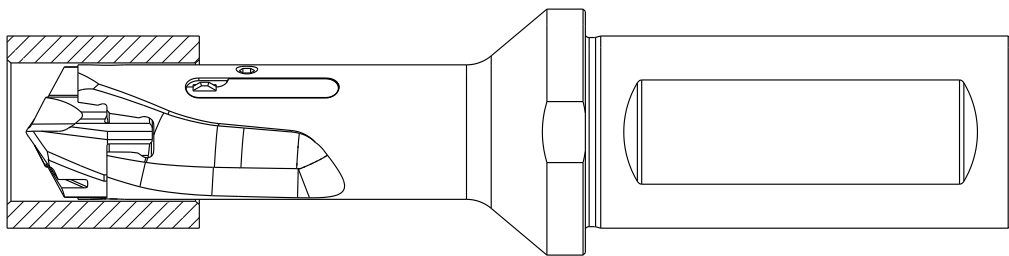




Brake Anchor Plate

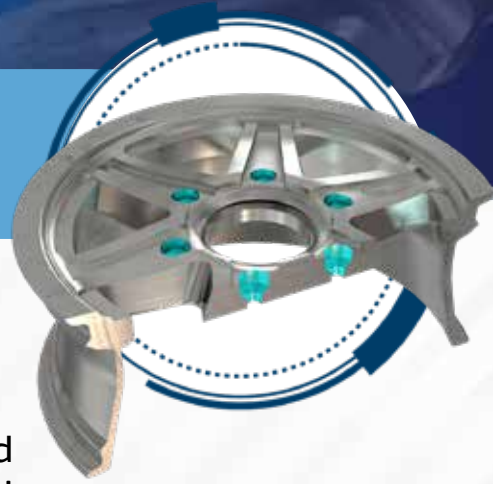


Industry Automotive
Special Tool for Drilling and Deburring with a Special Spring Mechanism
Drilling Head ICP 180
Material Steel S355J2





Aluminum Wheel Disc



Industry Automotive

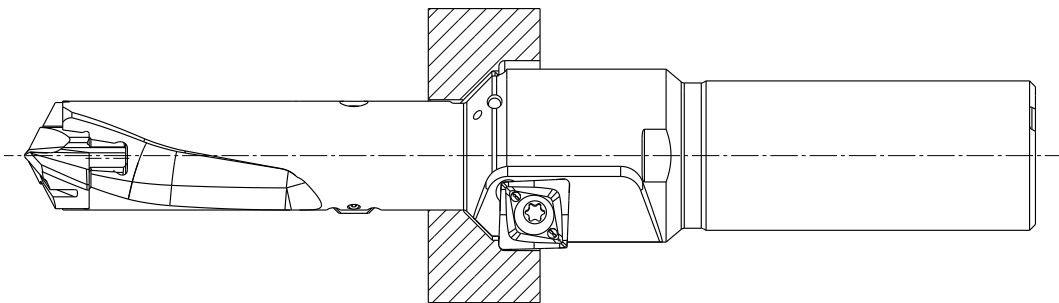
Special Tool for Drilling , Chamfering and
Deburring with a Special Spring Mechanism

Drilling Head ICN 190

Boring and Chamfer Inserts XECR 120510-88478, SOGT 09T306-AL

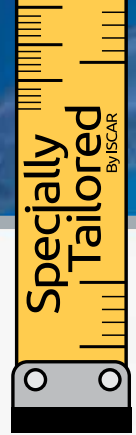
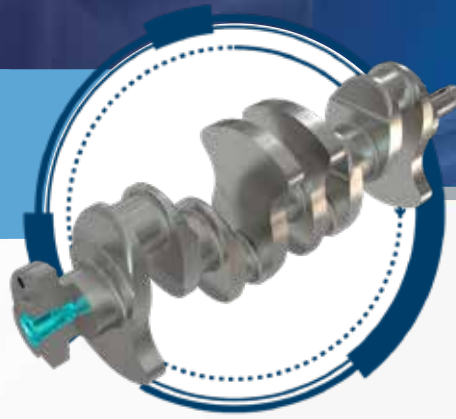
Deburring Insert DEI 090602-45DT

Material Aluminum AA-6061(AlSiMgCu)





Crankshafts



Industry Automotive

Special Tool for Drilling, Boring, Chamfering, and Radiusing
for Entering the Workpiece Using a Special Insert

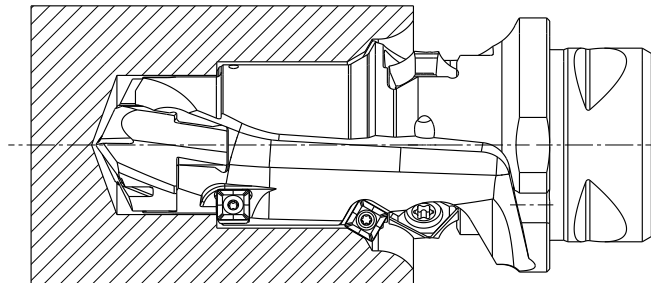
Drilling Head ICP 230

Boring and Chamfer Inserts SOMX 050204-DT

Special Radius Insert SOMT 11-R7

Material ASTM A247

Hardness 285





High Pressure Fuel Pump Case

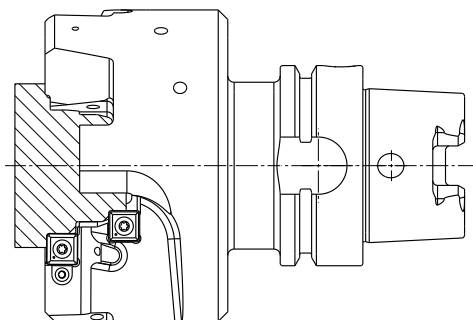


Industry Automotive

Special Tool for External Boring with Cartridges
Adjusted to the Required Profile in a Single Application

Boring Inserts SOMX 070305-DT

Material Stainless Steel 1.4057





Engine Component



Industry Automotive

Special COMBICHAM Tool for Drilling, Chamfering
and for Completing the Whole Application

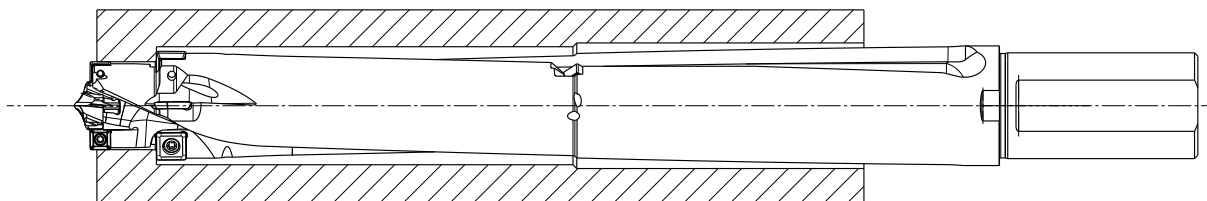
Drilling Head HCP 157-IQ

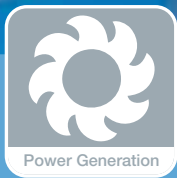
Inserts SOGX 060304-W

SOMT 09T306-DT

AOMT 060204-45DT

Material Ductile Iron SS0727

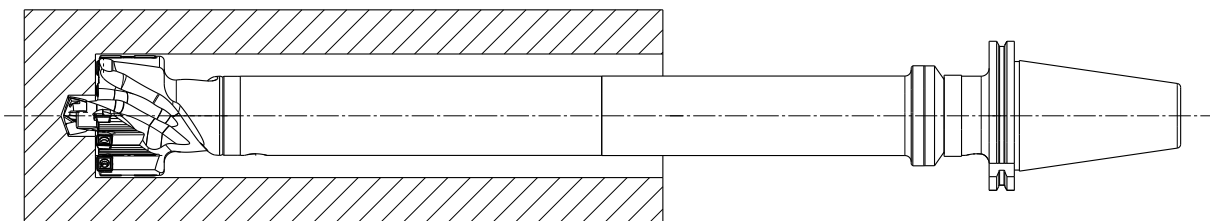




Impeller



Industry Power Generation
Special COMBICHAM Ø60mm Head with MB40
Connection for Interrupted Cuts
Drilling Head ICP 250
Inserts SOMT 100408
Material High-Temperature Steel





Track Bar



Industry Automotive

Special tool for Intermittent Drilling, Boring, Front and Back Chamfering

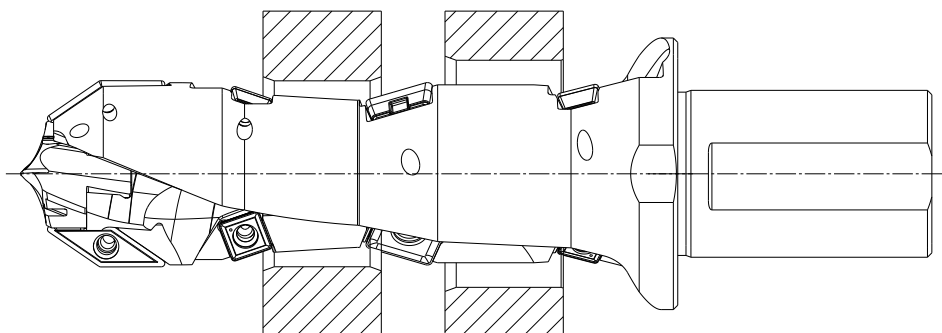
Drilling Head HCP 265

Inserts VCMT 160408

SOMT 100408-DT

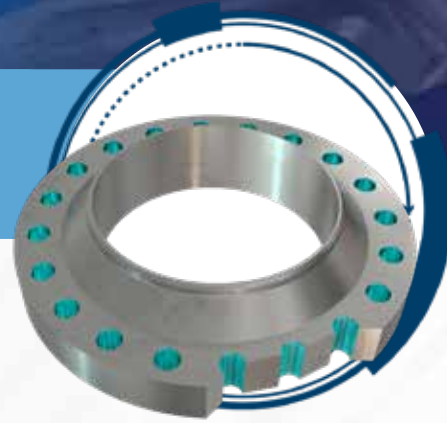
SOMT 160512-DT

Material Stainless Steel A920 15V41





Tower Flange



Industry Wind Power

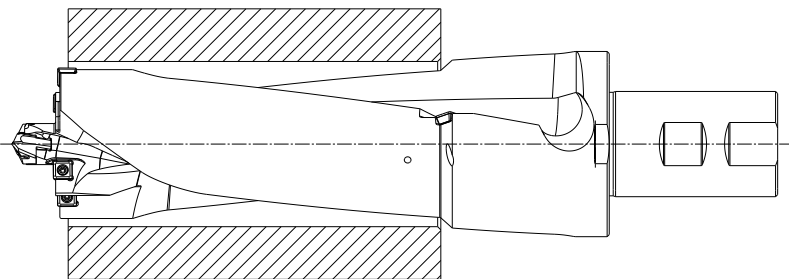
Special COMBICHAM Ø78mm for Drilling
and Chamfering in a Single Application

Drilling Head ICP 200

Inserts SOGT 09T306-W

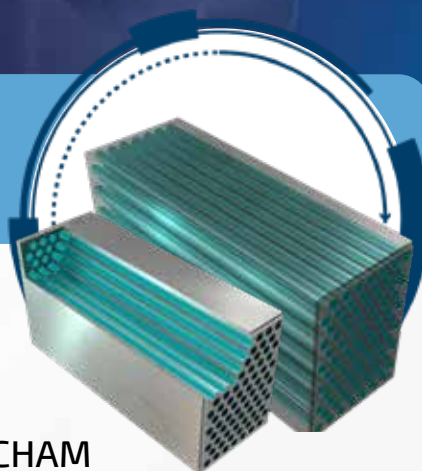
Material S355NL+Z35

Hardness HB250-350.

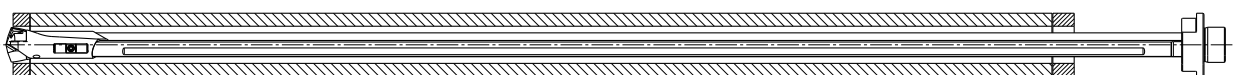


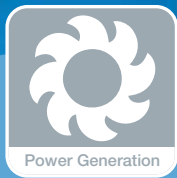


Tube Sheet Heat Exchanger

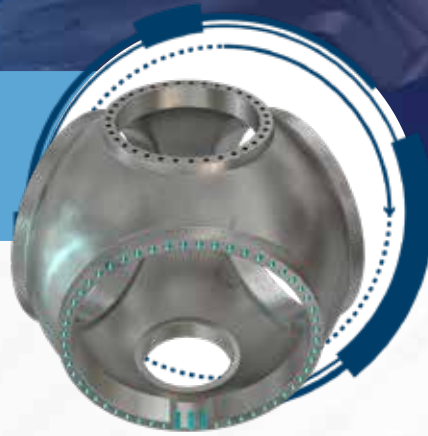


Industry Power Generation
Special Gundrill Carrying Standard SUMOCHAM
Indexable Inserts
Drilling Head HCP 196-IQ
Material SA508 with Inconel Clads





Wind Turbine Hub



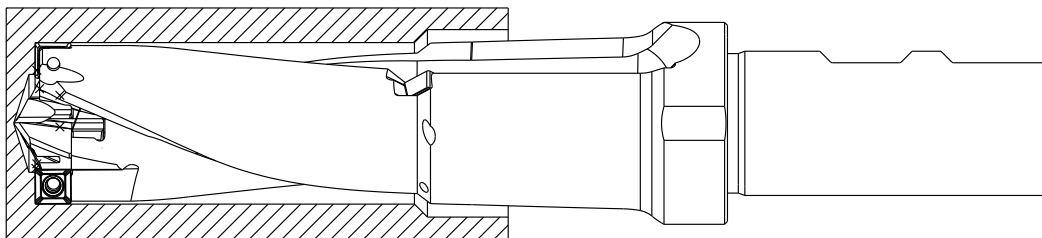
Industry Power Generation

Special COMBICHAM Ø28mm for Drilling and
Completing the Hole Profile in a Single Application

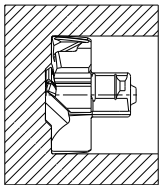
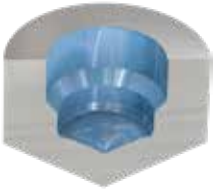
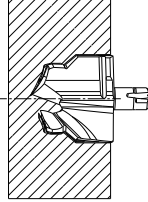
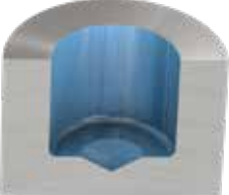
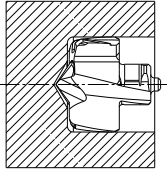
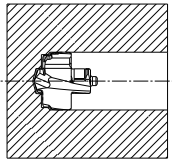
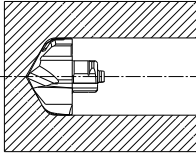
Drilling Head ICP 170

Inserts SOMX 060304-DT

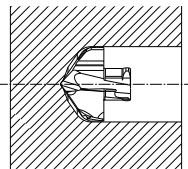
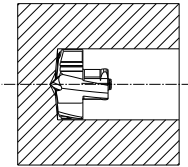
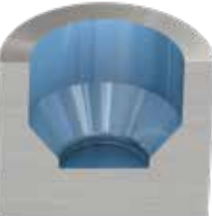
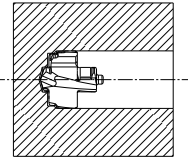
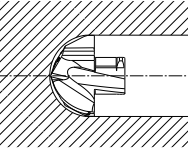
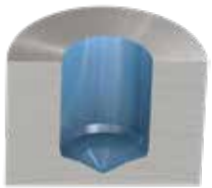
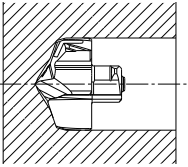
Material S355NL+Z35



Special Ground Drilling Head Design According to Application Drawing

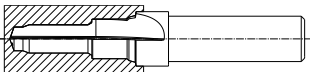
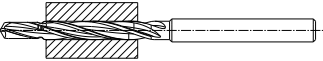
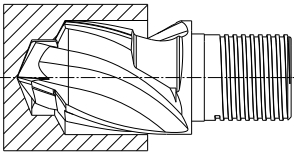
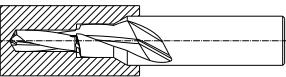
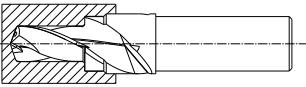
Special Ground Drilling Head Design According to Application Drawing

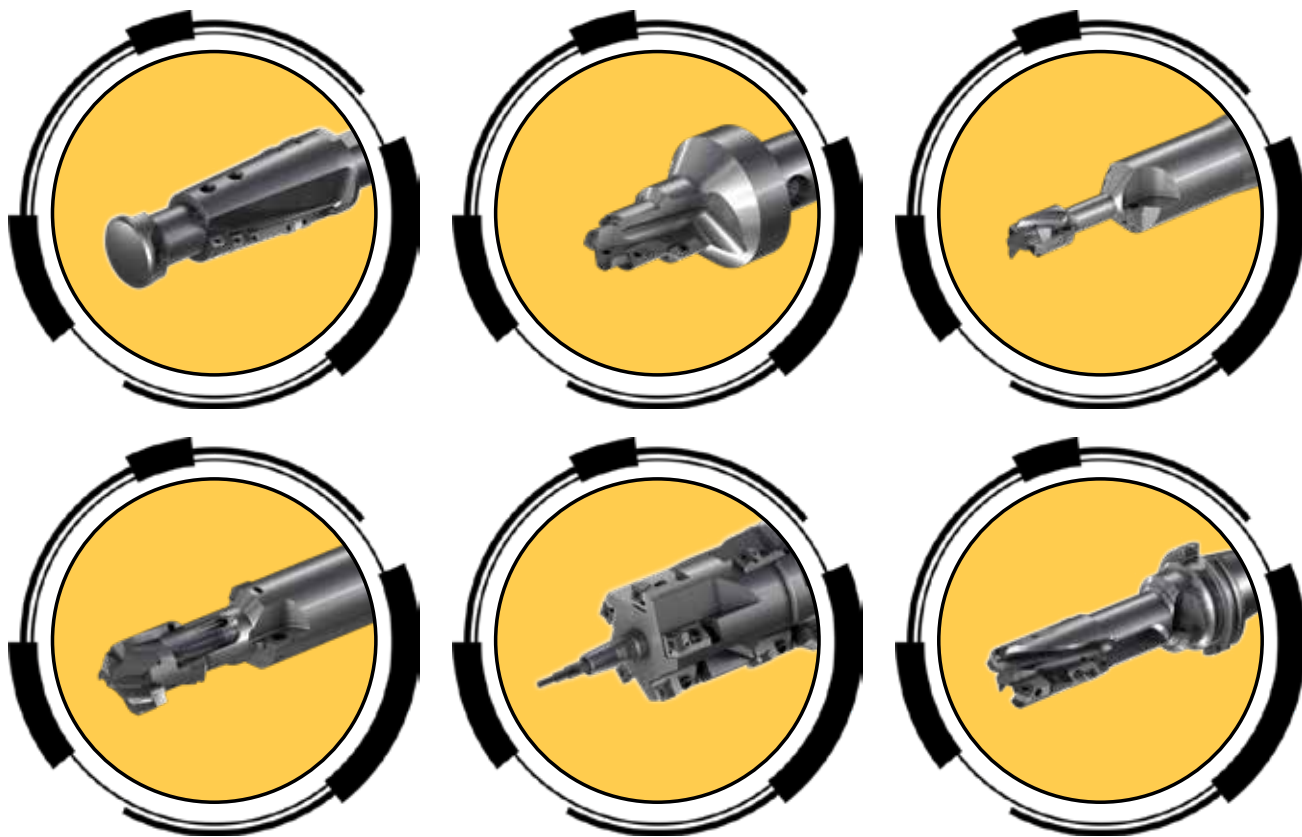
Special Solid Carbide Drills, Mainly for Small Diameter and Difficult Shapes to Machine



Special Solid Carbide Drills, Mainly for Small Diameter and Difficult Shapes to Machine

		
		 *Drilling and Reaming operation in one path
		
		
		
		

SPECIALLY TAILORED ISCAR HOLEMAKING LINES



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