

Hanwha Precision Machinery / Machine Tool Division

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Experience Your **SMART FACTORY**

Hanwha Machine Tool

CNC Swiss Turning Lathe



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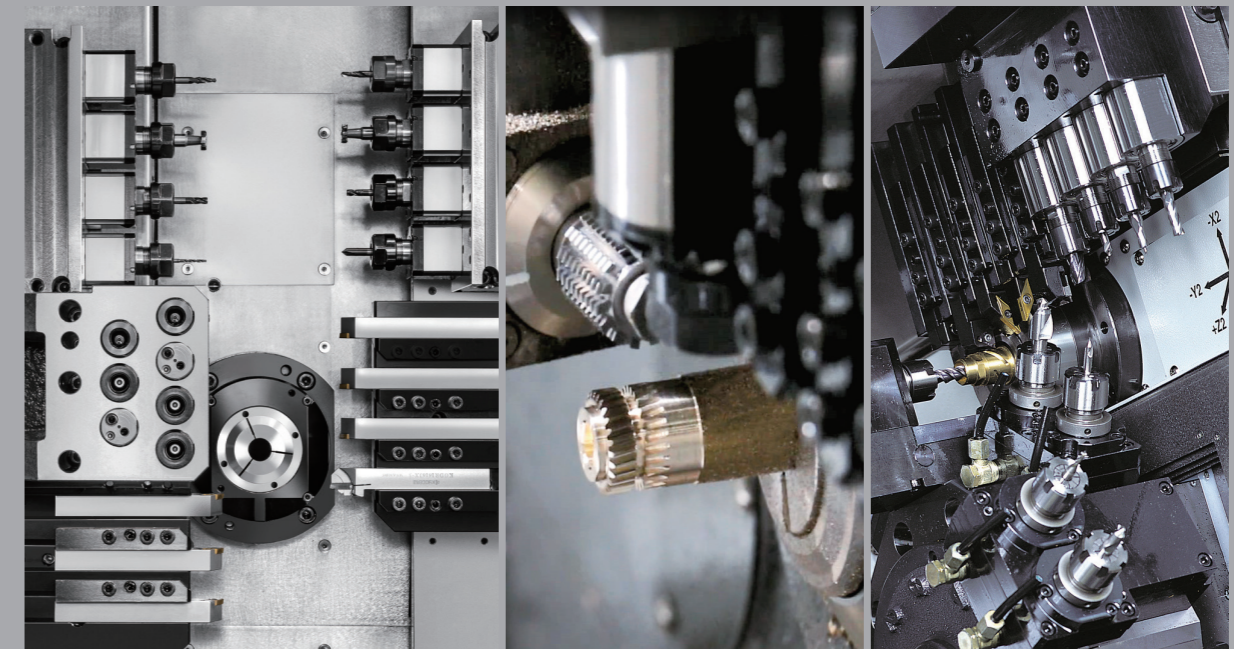
ASIA

China · Hong Kong · India · Philippines
Israel · Thailand · Indonesia · Malaysia
Vietnam

AMERICA

U.S.A · Canada · Brazil · Argentina · Mexico
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Enjoy Total Engineering Solution

After starting the machine tool business in 1977, Hanwha Precision Machinery has become a leading worldwide Smart Factory solutions provider, offering Surface Mount Technology (SMT) mounters, Machine Tool, industrial automation equipment, and integrated software solutions. We do this to develop customer-oriented solutions that deliver greater efficiency, versatility and value.

Machine Tool Division

CNC Swiss turning Lathe

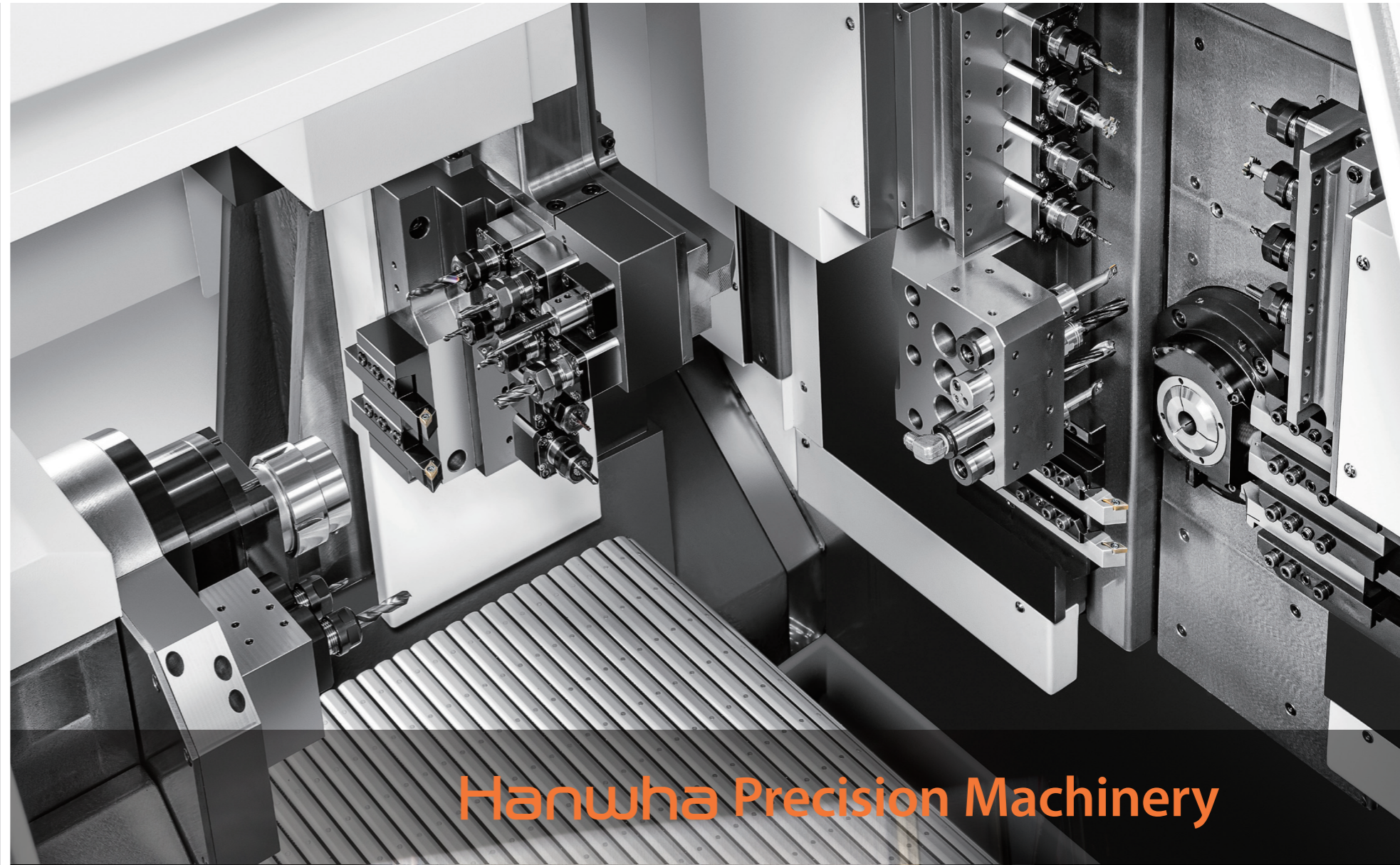
Offers customized solutions with a wide range of line-up for automatic lathes in gang & turret type.



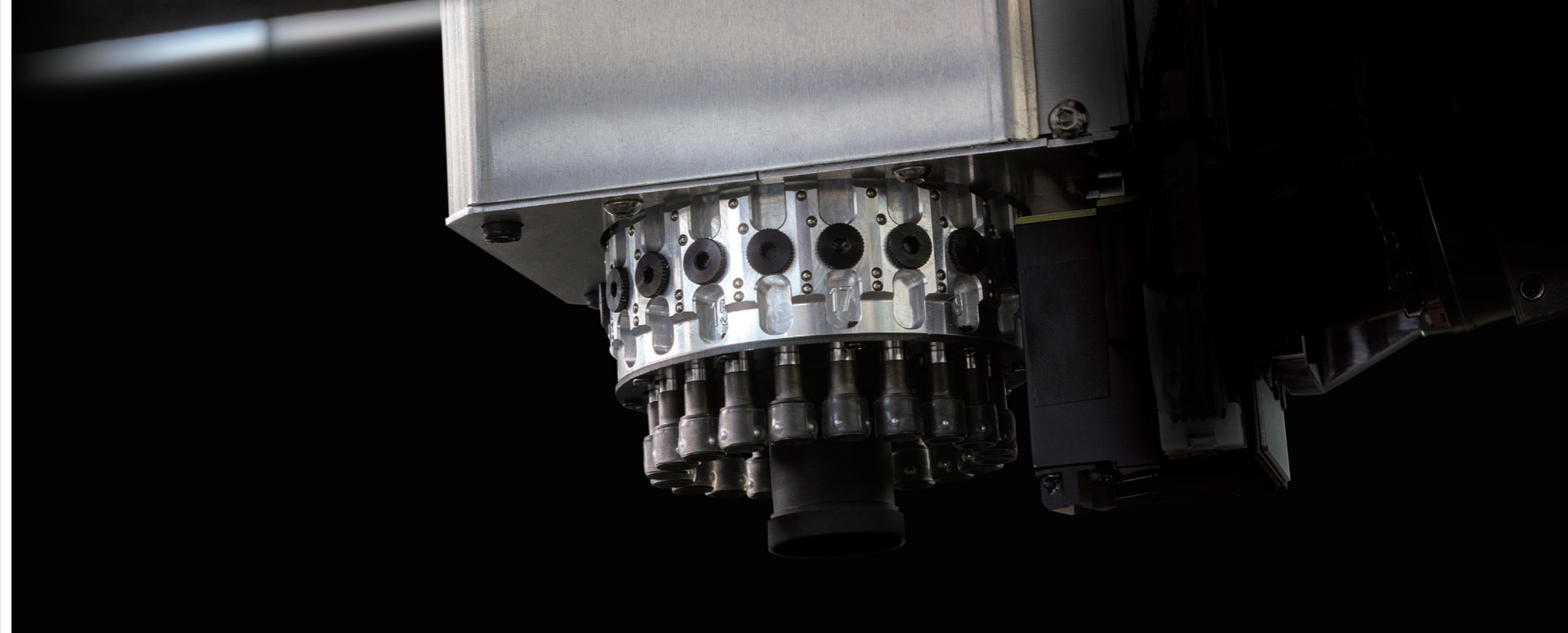
Surface Mounter Technology Division

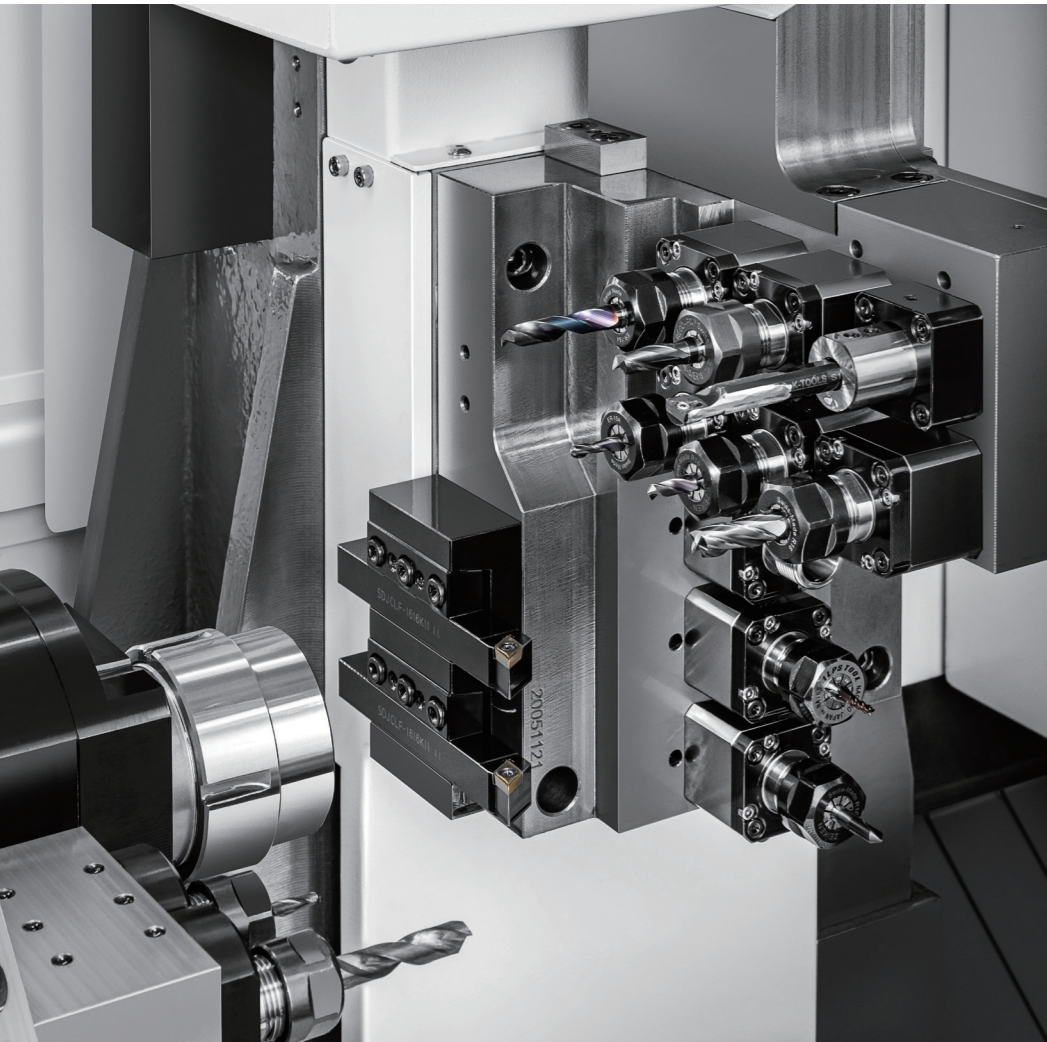
Chip Mounter • Screen Printer • Semiconductor Equipment

After developing its first chip mounter, offers SMT mounters, semiconductor equipment, industrial automation equipment and software solutions.



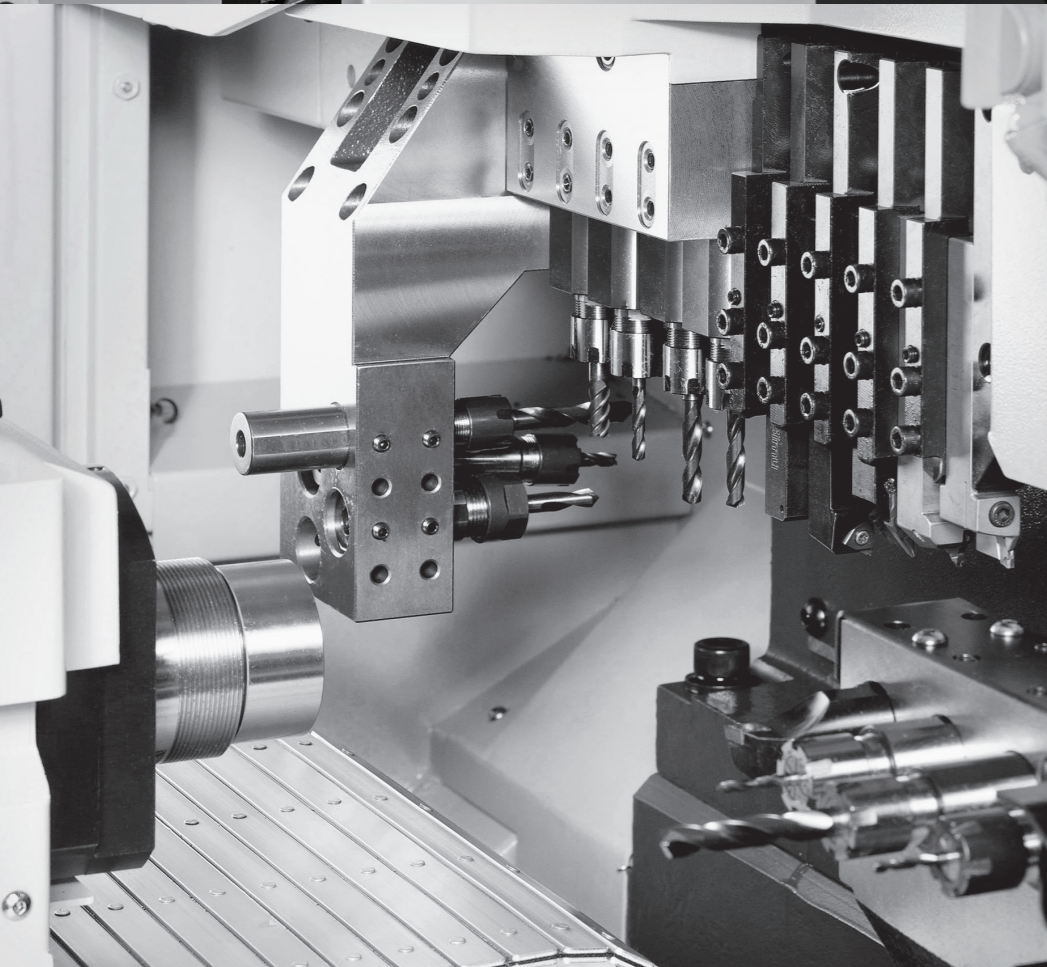
Hanwha Precision Machinery





CNC Swiss Turning Lathe

Provides the best customized machining solution with a wide range of line-up from Ø10mm to Ø42mm and various options



Machine Tool Division

Turning forward to the Future

Starting the machine tool business 1977 and developing its first CNC Swiss turning machine in 1998, Hanwha machine tool division has been focusing on product development to best fit customer's various needs and resulted in a wide range of line-up of excellent gang & turret type series. We, as a leading Swiss turning solution provider, will continue to strive to reach the top position in the machine tool business, accelerating our innovation and growth based on our +50 years of business experience and ever-expanding Hanwha global network.

To be the Global
No.

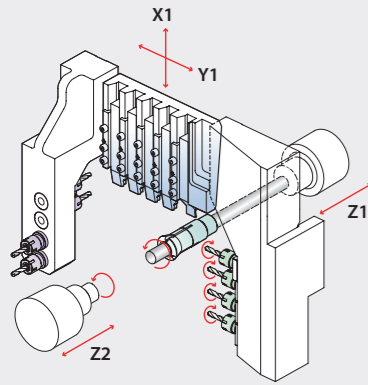
Exports to more than
30 countries in the world



- **2021**
3-path 9 axis swiss turn, XDI 26/32
- **2020**
High-complex turret type, STL42
High-productive model, XD10
- **2010**
 - 2019 XD38II-R, heavy duty cutting model
 - Established Europe technical center in Germany
 - 2018 Hi-CPS, Smart Factory MES system
 - XD20/26II-V, high complex model
 - 2016 Upgraded line-up; XD-II, XE series
 - XD12/16III, XD42
 - 2014 Established Hanwha machinery Suzhou in China
 - Opened Stuttgart office in Germany
 - 2010 XD07, compact and precise machine
- **2000**
 - 2008 Opened Milwaukee office in U.S.A
 - 2006 XD20N, the first non-guide bush type
CNC automatic lathe in Korea
 - XD32/35 series
 - 2005 XP series, 4-axis CNC automatic lathe
 - 2004 Opened Suzhou office in China
 - XD20H, CNC automatic lathe
- **1990**
 - 1998 ML series, the first CNC automatic lathe in Korea
 - 1994 Centerless grinding machine KCG-200J
 - 1992 The first internal grinding machine
- **1983**
SAL-10, the first cam type lathe in Korea
- **1977**
Started machine tool business

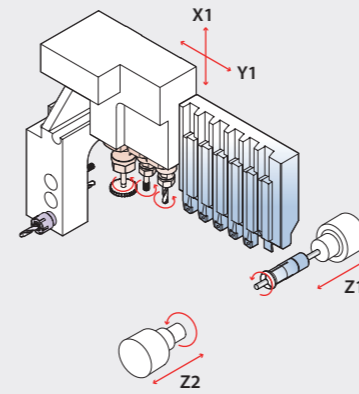
XP20/26/32S

Compact, in-budget 4-axis model for max. dia. 20/26/32mm (with side cross tool)



XP12/16S

Compact, in-budget 4-axis model for max. dia. 12/16mm



- OPTION**
- Cross 4
 - Gear hobbing unit

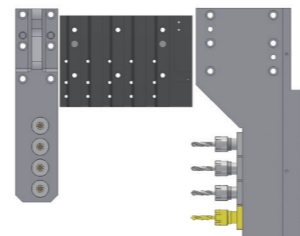


Model	XP20S	XP26S	XP32S
NC	Hanwha Fanuc-i		
Max. machining diameter (mm)	Ø20	Ø26	Ø32
Z1 Stroke (mm)	210	205	
Main spindle	Speed (rpm)	8,000	
	Motor (kW)	2.2/3.7	5.5/7.5
OD tool	No. of tools	6 (□12mm)	5 (□16mm)
	No. of tools	4 (ER16M, Ø25)	
Cross drill	Speed (rpm)	6,000	5,000
	Motor (kW)	1.0	
Sub spindle	Speed (rpm)	8,000	
	Motor (kW)	0.55/1.1	1.5/2.2
Machine size (L x W x H) (mm)	2,030 x 1,140 x 1,710		
Weight (kg)	2,300	2,500	
Power consumption (Cable size)	XP20S : 10kVA, 6.7kW (VCTF 10SQ x 4C) XP26/32S : 15kVA, 10kW (VCTF 16SQ x 4C)		
Air flow rate (Liter/Min)	120 ~ 150		

OPTION TOOLING

Cross unit 4 (1 modular)

- ER16M x 4
- ※ Standard cross : Non-modular



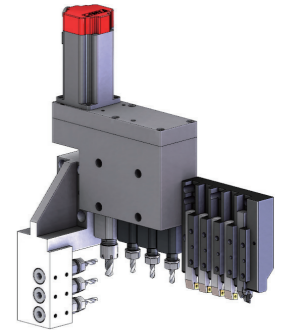
- Right choice for old cam lathe users who need better precision and productivity
- Steady selling model with proven performance & quality

Model	XP12S	XP16S
NC	Hanwha Fanuc-i	
Max. machining diameter (mm)	Ø12	Ø16
Z1 Stroke (mm)	140	
Main spindle	Speed (rpm)	12,000
	Motor (kW)	2.2/5.5
OD tool	No. of tools	6 (□12mm)
	No. of tools	3 (ER11, Ø20)
Cross drill	Speed (rpm)	6,000
	Motor (kW)	0.5
Sub spindle	Speed (rpm)	8,000
	Motor (kW)	0.55/1.1
Machine size (L x W x H) (mm)	1,650 x 1,090 x 1,640	
Weight (kg)	1,800	
Power consumption (Cable size)	10kVA, 6.7kW (VCTF 10SQ x 4C)	
Air flow rate (Liter/Min)	120 ~ 150	

OPTION TOOLING

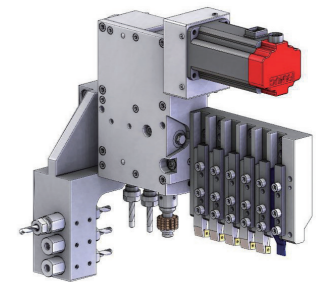
Cross unit 4

- OD 5 (□12),
- Cross 4 (ER16x1, ER11x3),
- Front 3 (ER11)

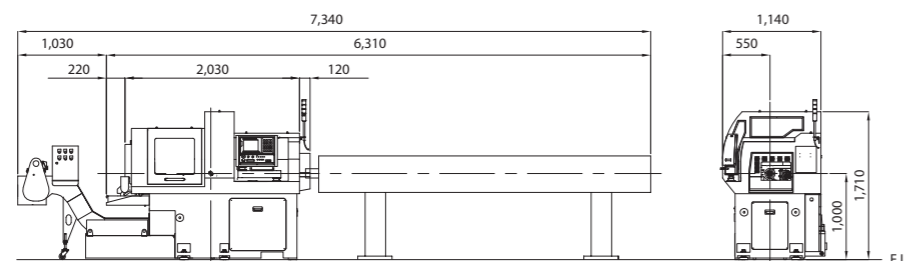


Gear hobbing unit

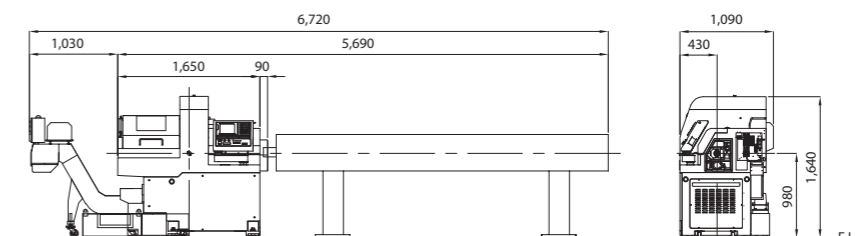
- Maker : Pibomulti
- Angle : -2° ~ 2°



Dimension



Dimension



Hi-CPS

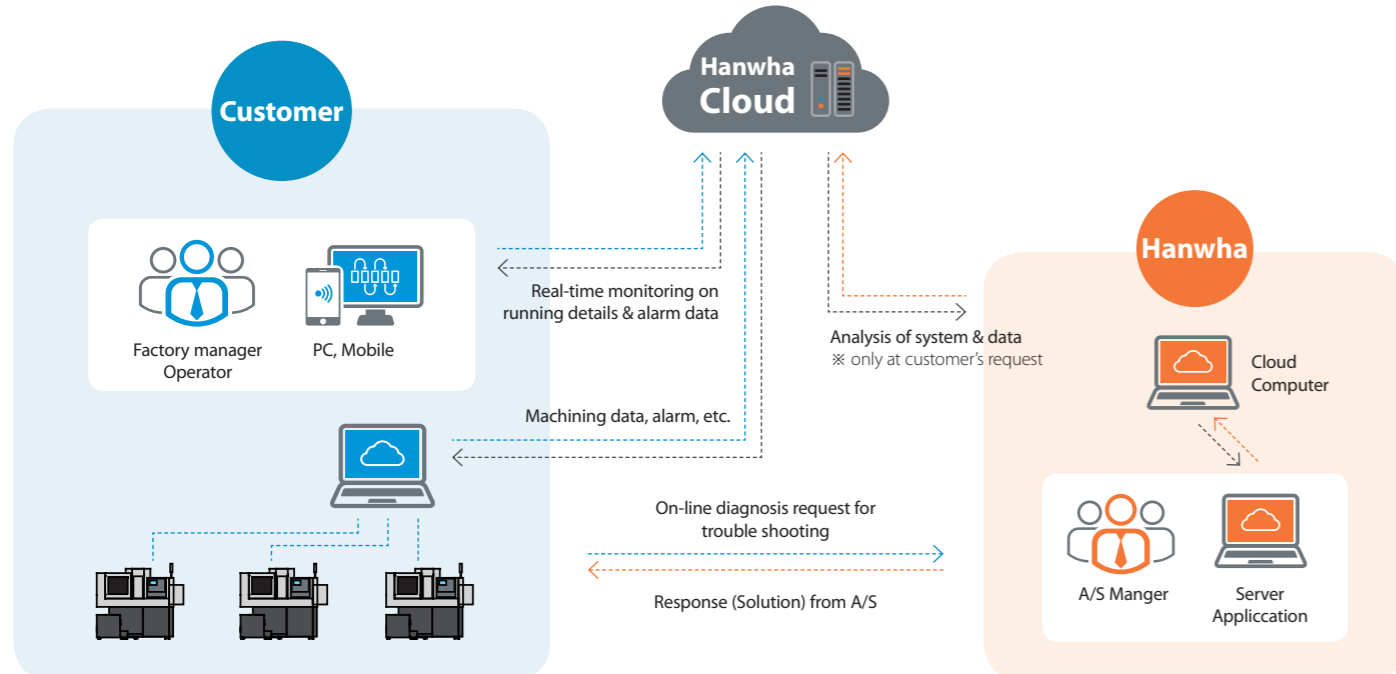
Hanwha Intelligence CNC Prognostic System



Hi-CPS is a kind of smart factory solution to enable customers to manage factory in a smart & convenient way by providing real time onitoring on running status of machines at the facility. It is a cloud-based system so that one can access with ease from anywhere through internet.

Function

- 1 Monitoring**
 - Monitors machine operation status from PC & Mobile
 - Check machining, repair, alarm, cycle time, etc.
- 2 Diagnosis**
 - Remotely examines alarmed machines at user's online request
 - ※ Only at customer's request, relevant machine data will be auto-transferred to Hanwha for analysis
- 3 Prognosis**
 - Analyzes cutting load, tool change and offset



PCR / PCRS & Oscillation

Chip breaking solution



Hanwha provides chip cutting solution to break long and curled chips into small pieces through macro program.

Advantage

- Better tool life
- Build-up edge free
- Chip trouble free
- Coolant usage saved



Model	PCR	PCRS	Oscillation
NC	FANUC 32i-B	SIEMENS 828D/840D	Fanuc 0i-TD / 0i-TF / 32i-B
Front turning	•	•	•
Back turning	•	•	•
Back drilling	Fixed drills	•	Fixed drills
Taper	•	•	45° angle
Circular interpolation	•	•	•
Synchronous control	•	•	x
Threading	•	•	x
Nose R compensation	x	•	x

Customer & Performance Supporting Function

Hanwha offers various software for enhancing machining performance & supporting customer's convenience.

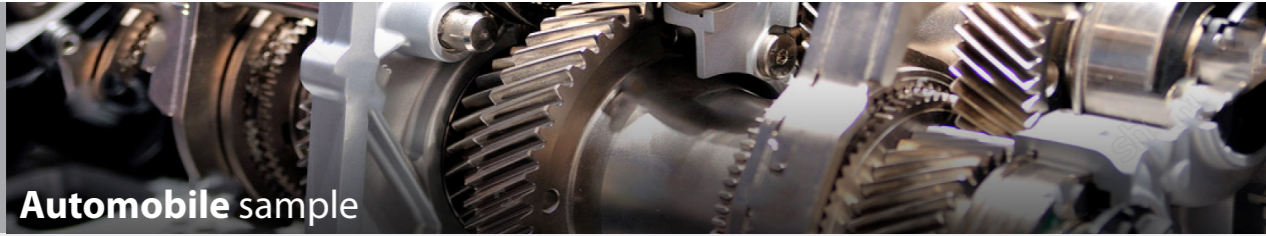
The image shows four software interfaces: **HEAD1 QUICK MEASURE** (T0100), **TOOL MONITORING [G601/G600]**, **3D HOLE CHAMFER [G400]**, and a **Motion Optimization** bar chart comparing Normal and New methods for 35mm, 16.5mm, and 17.5mm materials.

- Quick Measuring**
Setting time reduce system
Supports tools setting with minimal control and none of screen change
- Collision Protection**
Easy setting of value to protect collision before occurring

- Tool Load Monitoring**
Alarms when abnormal load on tools are detected
- M7**
Single code to command cut-off of material

- 3D Chamfer Solution**
Uniform chamfer machining on cross hole with input of single code
- G301**
Single code to set the position of Z2-axis for cut-off of material

- Motion Optimization**
C/T reduce system
Reduces cycle time by minimizing unnecessary motion (non processing time)
- Help function**
Provides description & graphic information about codes & alarms with



Automobile sample



Electronic sample



Industrial sample



Medical sample

NO. Material	 A001 SUM22	 A002 SUS304	 A003 SCM440H
NO. Material	 A004 SUS304	 A005 SUS304	 A006 SUS304
NO. Material	 A007 SUM22	 A008 SUS630	 A009 SUM24
NO. Material	 A010 AL6062-T8	 A011 AL6062-T8	 A012 AL6062-T9
NO. Material	 A013 Brass	 A014 AL-Die Casting	 A015 SUM22
NO. Material	 A016 SUS316	 A017 SUS304	 A018 SUS303
NO. Material	 A019 SCM315	 A020 AL6062	 A021 Brass
NO. Material	 A022 AL6061	 A023 SUS304	 A024 SUM202

NO. Material	 E001 SUS316	 I001 AL6062	 M001 Titanium
NO. Material	 E002 AL6061	 I002 SUS316	 M002 SUS316L
NO. Material	 E003 AL6062	 I003 AL2024	 M003 Titanium
NO. Material	 E004 AL6061	 I004 AL2024	 M004 Titanium
NO. Material	 E005 Brass	 I005 AL6062	 M005 Titanium, Brass
NO. Material	 E006 AL6061	 I006 AL6062	 M006 Titanium, Brass
NO. Material	 E007 Brass	 I007 SUS316	 M007 SUS316
NO. Material	 E008 AL6062	 I008 Brass	 M008 Titanium