

# TURNING CENTERS

Flexible and comprehensive solutions for  
complex production needs

TURNING AT  
HIGH SPEED



**THE  
AGILE  
ASSISTANT  
FOR  
MULTI-  
FACETED  
TURNING**



# CREATOR'S BRAND

## CNC machines since 1968

At HURCO® we develop and produce CNC machining centers and lathes to satisfy any requirement. As a manufacturer with more than 50 years of experience in the CNC sector, we have a precise appreciation of your own unique production and manufacturing requirements. Our versatile machining and turning centers help you get the most out of your production operation. We offer it all, including 2-axis turning centers that save on space and costs, models with live tooling, and turning centers with a Y-axis and sub-spindle for flexible and precise comprehensive machining.

Our approach is shaped by experience, garnered in partnerships extending over many years with an array of clients representing a wide range of manufacturing sectors. This is how each HURCO® machine tool has been optimized to satisfy your company's diverse requirements. We source the components from premium brands and suppliers who have earned our confidence. Manufacturing processes are in compliance with the highest quality standards: Our quality management system has earned ISO 9001:2015 certification.

## With expertise and passion

HURCO® is one of the largest and highest-performing international manufacturers of CNC machining and turning centers. For more than 50 years, our high-quality products have been used in the aerospace and aeronautics, machine construction, medical technology, power and energy, transport, and computer technology sectors around the globe.

At HURCO®, you benefit from the unbeatable combination of machine and control expertise. Our MAX®5 control system is an in-house development designed to minimize your training and programming times. Ready to make your production operation easier, faster, and more flexible? We're happy to help you figure out which turning center model and corresponding options are right for you. That's how we ensure that your equipment is perfectly adapted to the production needs of your company. Your questions about our machines, our patented CNC control system, or maintenance and repair of your turning and machining center will be answered by your personal contact at HURCO® Werkzeugmaschinen GmbH.

# TECHNICAL SPECIFICATIONS

## THE ALL-ROUNDER

Designation	TM 6i	TM 8i	TM 10i	TM 12i
Travel distances				
X-axis (mm)	168	203	250	305
Y-axis (mm)				
Z-axis (mm)	356	550	790	1,016
W-axis (mm)				
Machine capacity				
Max. turning diameter (mm)	215	256	304	395
Swing diameter over bed (mm)	405	525	582	680
Max. swing diameter (mm)				
Swing diameter over cross slide (mm)	240	300	402	510
Main spindle				
Max. speed (rpm)	6,000	4,000	3,000	2,800
Torque [S6/S1] (Nm)				
Max. torque (Nm)	114	221	351	605
Chuck diameter (mm)	169	210	260	305
Max. power (kW)	13	23	22	55
Power [S6/S1] (kW)				
Draw tube diameter (mm)	45	64.5	81	104
Sub-spindle				
Max. speed (rpm)				
Torque [S6/S1] (Nm)				
Spindle power [S6/S1] (Nm)				
Live tooling				
Max. speed (rpm)				
Power (kW)				
Max. torque (Nm)				
Feed				
Rapid traverse X/Z-axis (m/min)	30/30	30/30	30/30	30/30
Rapid traverse X/Y/Z/W-axis (m/min)				
Turret				
Type	VDI 20	VDI 30	VDI 40	VDI 40
Stations	12	12	12	12
Max. boring bar diameter (mm)	32	32	40	40
Shank cross section (mm)	19	19	25	25
Other data				
Required floor space (mm) (door open, incl. control system and chip conveyor)	3,916 x 2,525 x 2,144	4,489 x 2,729 x 2,193	5,032 x 2,854 x 2,233	6,227 x 3,225 x 2,305
Machine weight (kg)	3,250	4,050	5,050	7,500

THE DRIVER			THE MULTI-TALENT			
TM 8Mi	TM 10Mi	TM 12Mi	TMX 8MYi	TMX 10MYi	TMX 8MYSi	TMX 10MYSi
198	250	305	285	305	286	305
			+/- 55	+/- 55	+/- 55	+/- 55
550	790	1,016	560	670	560	670
			640	740	640	740
256	295	360	336	375	336	375
525	582					
		680	560	560	560	560
300	402	510				
4,000	3,000	2,800	4,500	3,500	4,500	3,500
			239/164	267/229	239/164	267/229
264	520	744				
210	254	315	210	260	210	254
23	40	40				
			25/17.2	28/24	25/17.2	28/24
64.5	81	104	64.5	78	64.5	78
					6,000	6,000
					102/75	102/75
					15/11	15/11
6,000	5,000	4,000	5,000	5,000	4,800	5,000
5	7.4	10	6.3	6.3	6.3	6.3
29	47	64	28	28	28	28
30	30/30	30/30	24/12/30/30	24/12/30/30	24/12/30/30	24/12/30/30
VDI 30/DIN 1809	VDI 40 - DIN 1809	VDI 50/DIN 1809	VDI 40/DIN 5480// BMT 65/DIN 1809	VDI 40/DIN 5480	VDI 40/DIN 5480// BMT 65/DIN 1809	VDI 40/DIN 1809
12	12	12	12	12	12	12
32	40	50	40	40	40	40
19 x 19	25 x 25	32	25	25	25	25
4,466 x 2,812 x 2,192	5,008 x 2,910 x 2,233	6,227 x 3,225 x 2,305	5,519 x 3,296 x 2,552	5,523 x 3,052 x 2,552	5,519 x 3,296 x 2,552	5,523 x 3,052 x 2,552
4,400	5,450	7,500	7,000	7,700	7,500	7,700

# TMi- SERIES

IT DOES  
IT ALL!

THE ALL-ROUNDER -  
FOR SPACE-SAVING  
PERFORMANCE



## TM6i

X-axis (mm)	168
Z-axis (mm)	356
Max. turning diameter (mm)	215
Chuck diameter (mm)	169
Max. boring bar diameter (mm)	32



#### TM 8i

X-axis (mm)	203
Z-axis (mm)	550
Max. turning diameter (mm)	256
Chuck diameter (mm)	210
Max. boring bar diameter (mm)	32



#### TM 10i

X-axis (mm)	250
Z-axis (mm)	790
Max. turning diameter (mm)	304
Chuck diameter (mm)	260
Max. boring bar diameter (mm)	40



#### TM 12i

X-axis (mm)	305
Z-axis (mm)	1,016
Max. turning diameter (mm)	395
Chuck diameter (mm)	305
Max. boring bar diameter (mm)	40

Compact and powerful HURCO® turning centers for fast machining of top-quality one-offs and small series runs.

### TM 6i | TM 8i | TM 10i | TM 12i

- Cast-iron machine bed optimized with the help of finite element analysis (FEA).
- Slant bed with true 45-degree tilt.
- Latest-generation brushless AC servo motor drives.
- Pretensioned ballscrews.
- Linear guides for all axes.
- Maintenance-free cartridge spindles with permanently lubricated bearings.
- Bi-directional hydraulic turret.
- Tailstock with live center for positioning on heavy-duty box guideways.

# TM Mi-SERIES

CLEVERLY  
COMBINED

THE DRIVER –  
FOR ESPECIALLY HIGH  
PRODUCTIVITY



## TM 8Mi

X-axis (mm)	198
Z-axis (mm)	550
Max. turning diameter (mm)	256
Chuck diameter (mm)	210
Max. boring bar diameter (mm)	32





#### TM 10Mi

X-axis (mm)	250
Z-axis (mm)	790
Max. turning diameter (mm)	295
Chuck diameter (mm)	254
Max. boring bar diameter (mm)	40



#### TM 12Mi

X-axis (mm)	305
Z-axis (mm)	1,016
Max. turning diameter (mm)	360
Chuck diameter (mm)	315
Max. boring bar diameter (mm)	50

HURCO® TM Mi Series turning centers with live tooling for high-performance CNC machining of small and medium-sized workpieces.

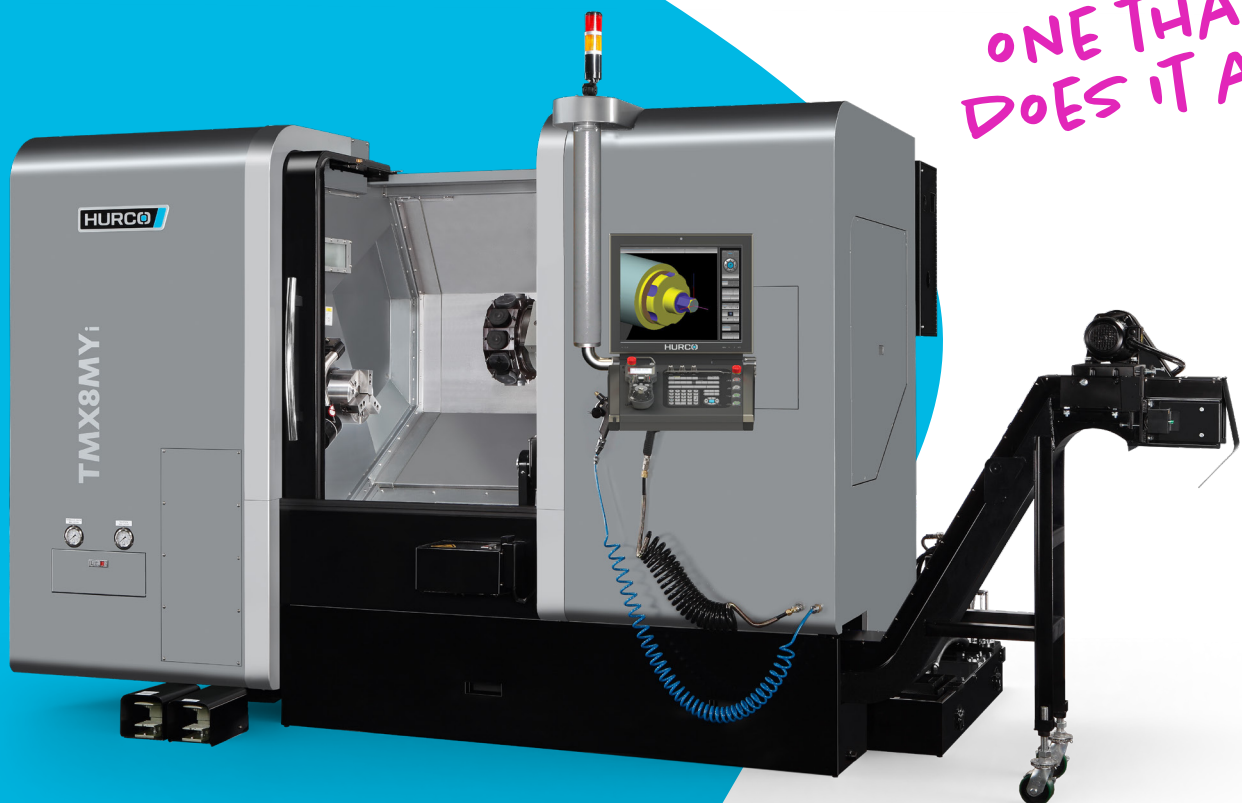
### TM 8Mi | TM 10Mi | TM 12Mi

- Cast-iron machine bed optimized with the help of finite element analysis (FEA).
- Slant bed with true 45-degree tilt.
- Latest-generation brushless AC servo motor drives.
- Pretensioned ballscrews.
- Linear guides for all axes.
- Maintenance-free cartridge spindles with permanently lubricated bearings.
- Bi-directional powered turret.
- Tailstock with live center for positioning on heavy-duty box guideways.

# TMX MYi/ MYSi SERIE

**THE MULTI-TALENT - FOR  
UNWAVERING COMPREHENSIVE  
MACHINING**

*ONE THAT  
DOES IT ALL*



*Totally Versatile*

## TMX 8MYi

X-axis (mm)	285
Z-axis (mm)	560
Max. turning diameter (mm)	336
Chuck diameter (mm)	210
Max. boring bar diameter (mm)	40



#### TMX10MYi

X-axis (mm)	305
Z-axis (mm)	670
Max. turning diameter (mm)	375
Chuck diameter (mm)	260
Max. boring bar diameter (mm)	40



#### TMX8MYSi

X-axis (mm)	286
Z-axis (mm)	560
Max. turning diameter (mm)	336
Chuck diameter (mm)	210
Max. boring bar diameter (mm)	40



#### TMX10MYSi

X-axis (mm)	305
Z-axis (mm)	670
Max. turning diameter (mm)	375
Chuck diameter (mm)	254
Max. boring bar diameter (mm)	40

HURCO® TMX MYi and TMX MYSi Series multi-axis turning centers do more than just combine turning and milling capabilities. They proudly boast a longer travel distance in the Y-axis than comparable models, which is how they offer ultimate production flexibility. MYSi models have a powerful sub-spindle to enable a particularly high productivity and precision.

### TMX 8MYi | TMX 10MYi | TMX 8MYSi | TMX 10MYSi

- Cast-iron machine bed optimized with the help of finite element analysis (FEA).
- Slant bed with true 30-degree tilt.
- Latest-generation brushless AC servo motor drives from Yaskawa.
- Pretensioned ballscrews.
- Linear guides for all axes.
- Maintenance-free cartridge spindles with permanently lubricated bearings.
- Bi-directional powered turret.
- Tailstock with live center (TMX MYi) or sub-spindle (TMX MYSi) as W-axis on heavy duty box guideways.
- High power and high torque, fast rapid-traverse speeds for high-yield cycles.

# **FUNCTIONS WITH ADDED VALUE**

## **EASY MILLING WITH YOUR CUSTOMIZED MACHINE**

You can individually and flexibly equip our machining and turning centers with a wide range of machine options – for customized support in your production scenarios.



### **Multi3000 short-bar loader**

This adaptable short-bar loader is the perfect supplement to your lathe if you're looking to increase returns in your production operation. This flexible, user-friendly, high-capacity machine enables uninterrupted production, precision material handling, and maximum throughput.

# PERFECTLY ADAPTED TO YOUR NEEDS

## **High-pressure cooling system**

Thermal stability is indispensable for precise production. The high-pressure cooling system optimizes not only the quality of the machined parts, but also tool service life and the productivity of your lathe.

## **Conversational and NC programming**

Easy, fast, and intuitive: three ways to describe the dialog-based control system. This additional option includes the industry standard software NCPP, parameter and macro programming, and subroutine technology for NC mode.

## **DXF programming**

Import 2D data from a DXF file to create a conversational program right inside the control system. Establishment of tool paths based on the CAD file eliminates data-entry errors and minimizes programming work.





THE CONTROL  
SYSTEM BY DOERS  
FOR DOERS

# MAX<sup>®</sup> 5

HURCO<sup>®</sup> CNC control combines powerful MAX<sup>®</sup> 5 hardware with user-friendly WinMax software and optional features such as Solid Model Import.

## YOUR BENEFITS AT A GLANCE

- **User-friendly operation.** Perfection can be this easy – with intuitive plain text conversational programming, you can intuitively set the control system according to your requirements.
- **Minimal time required.** Use of the control system can be learned quickly without any programming knowledge at all. It optimally supports your employees in achieving faster programming times with short, clearly arranged programs.
- **Individual configuration.** Choose from a variety of features (e. g. 3D DXF) specific to your needs to ensure that your HURCO<sup>®</sup> control system perfectly meets your needs.
- **High profitability.** Even the production of highly complex parts and a higher capacity utilization of your operation can be mastered in no time.
- **Measurable productivity.** The functions of the control system and numerous automation features demonstrably increase your capacity.
- **Greater employee satisfaction.** Automate processes and give your employees more time for more complex activities.

# MAX<sup>®</sup> 5 CON- TROL SYSTEM

## A dream for users from design to result.

With MAX<sup>®</sup> 5, you can process sketches and drawings right at the machine and program without an additional programming station.

## Tailored to your needs in every respect

- Ergonomic, rugged design
- Pull-out keyboard with adjustable inclination
- CAD/CAM support
- Solvent-resistant keyboard made of ABS polycarbonate
- Rotary override knobs in brushed stainless steel

# WINMAX<sup>®</sup> 5 SOFTWARE

**Supported by the best.** For the maximum performance of your HURCO<sup>®</sup> machine, we developed WinMax<sup>®</sup>5, a software program that is perfectly aligned with the performance specifications of our lathes and your needs as the user.

## Spotlight on WinMax<sup>®</sup> 5

- **Clearly displayed.** Use the optional second screen to show a simulation of the machining operation while you program.
- **Supportive.** The software independently creates machining data sets based on automatically recognized contours and drilling patterns.<sup>1</sup>



The versatility of the HURCO<sup>®</sup> control system makes complex work a cinch. The ability to quickly import data meshes with the multitude of machine options.

Gröbner Fertigungs GmbH



<sup>1</sup> Only with DXF



# THE AGILE ASSISTANT CLOSE TO YOU

Do you already use HURCO® solutions in your company, or are you interested in them and have questions? You will find the right answers and services from a single source.

## HURCO® - SERVICES

### Personal contacts for your region

Our regional contact persons are at your service to provide advice and assistance regarding your HURCO® machine or general questions – even long after the successful installation of your machining center. Simply reach out to us by email or phone.

Phone +49 89 905 094 - 0 | [info@hurco.de](mailto:info@hurco.de)  
Mon. – Fri. 7:30 a.m. – 4:00 p.m.

### Application advice

There is a dedicated hotline for your user questions.

Phone +49 89 905 094 - 66 | [awt@hurco.de](mailto:awt@hurco.de)  
Mon. – Fri. 8:00 a.m. – 4:00 p.m.

### Spare parts services & next day delivery

High spare parts availability at our Munich central warehouse and fast delivery of our spare parts means that your operation gets back up and running quickly from repair-related downtime. On request, we can also replace your old spindle with either a reconditioned or new spare part.

Phone +49 89 905 094 - 55 | [ersatzteile@hurco.de](mailto:ersatzteile@hurco.de)  
Mon. – Thurs. 8:00 a.m. – 5:00 p.m. | Fri. 8:00 a.m. – 4:00 p.m.

### Service

Our experienced service technicians will support you on site or via remote maintenance in the maintenance, care or repair of your HURCO® machine tools.

Phone +49 89 905 094 - 44 | [service@hurco.de](mailto:service@hurco.de)  
Mon – Thurs 7:00 a.m. – 5:00 p.m. | Fri. 7:00 a.m. – 4:00 p.m.



## Training & free tutorials

We give you the knowledge for getting the most out of your HURCO® machine and the MAX®5 control system – with customized on-site training for every user level and our free instructional videos on YouTube.



**HURCO® on YouTube:**  
@hurco-cnc-tooling-machines

## HURCO® Refurbished

You can regularly score real bargains from us with demo and used machines under attractive conditions – including a manufacturer's warranty.

**GET GOING**

# OUR SALES OFFICES - OUR PARTNERS



DEU

## Germany

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BEL

## Belgium (Flanders)

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[www.dijkinkmachinery.com](http://www.dijkinkmachinery.com)

BIH

## Bosnia and Herzegovina

Strojotehnika d.o.o. | Tel. +385 1 2042 526  
[www.strojotehnika.hr](http://www.strojotehnika.hr)

BGR

## Bulgaria

VEDI International Ltd. | Tel. +359 2 8514 546  
[www.vedi-international.com](http://www.vedi-international.com)

HRV

## Croatia

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LVA

## Latvia

Machine Tool Center UAB | Tel. +370 37 291 567  
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LIT

## Lithuania

Machine Tool Center UAB | Tel. +370 37 291 567  
[www.mtcenter.lt](http://www.mtcenter.lt)

MNE

## Montenegro

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[www.strojotehnika.hr](http://www.strojotehnika.hr)

NLD

## Netherlands

Dijkink Machinery bv | Tel. +31 0418 662112  
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MKD

## North Macedonia

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AUT

## Austria

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POL

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PRT

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ROU

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[www.allmetech.com](http://www.allmetech.com)

CHE

**Switzerland**

Convertero AG | Tel. +41 43 501 4140 | [www.convertero.ch](http://www.convertero.ch)

SRB

**Serbia**

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SVK

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ITAX PRECISION s.r.o. | Tel. +420 469 318402 | [www.itax.cz](http://www.itax.cz)

SVN

**Slovenia**

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[www.kactrade.com](http://www.kactrade.com)

ESP

**Spain**

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CZE

**Czech Republic**

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TUR

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HUN

**Hungary**

Single Product kft | Tel. +36 96 553091  
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# TURNING FROM A SINGLE SOURCE

*SIMPLER. MORE  
ACCESSIBLE.  
HURCO.*