



MEGADYNE



AM-EN

WOOD

INDUSTRY
BROCHURE



WOOD INDUSTRY

Our rubber and polyurethane belts support various needs of the wood industry. In this brochure, you will find the overview of the major applications such as sawing, debarking, veneer scarfing and exit transfers, veneer stacker, chipping and MDF preparation, press exit, trimming and inspection.

Megadyne has been catering to your needs since 1957, designing and manufacturing power transmission belts, matched components, and complete belt systems for all types of equipment. We are a reliable partner for original equipment manufacturers and aftermarket distributors, with:

9 manufacturing plants in Europe, North America, and Asia, more than 170 Customer Solution Centres and 3 main distribution hubs around the world, able to deliver products efficiently, from large industrial sites to remote locations.

BELT PROPERTIES



MEGADYNE MEGASYNC™ (GOLD, SILVER2)

SUPPLIED AS	Endless
LENGTH	248 - 4 956 mm
WIDTH	12 - 170 mm*
PITCH	SLV2 8, SLV2 14, GLD8, GLD14
TENSION MEMBER	Fiberglass
FEATURES	High stability and resistance, antistatic

*Standard Width Range - Megadyne will cut to desired width upon request.



MEGADYNE MEGASYNC™ TITANIUM

SUPPLIED AS	Endless
LENGTH	248 - 4 956 mm
WIDTH	12 - 170 mm*
PITCH	8M, 14M
TENSION MEMBER	Special Carbon cord
FEATURES	High stability and resistance

*Standard Width Range - Megadyne will cut to desired width upon request.



MEGADYNE V-BELTS

SUPPLIED AS	Endless - Wrapped - Raw edge
LENGTH	Consult Megadyne
WIDTH	According to section
PITCH	Wrapped B, C, D; Narrow 3V, 5V, 8V; Raw Edge BX, CX
TENSION MEMBER	Polyester
FEATURES	Long life and good performance

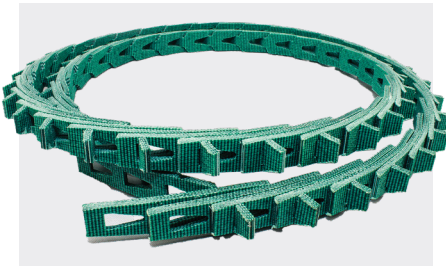


MEGADYNE V-BELTS - UNIMATCH BANDED

SUPPLIED AS	Endless
LENGTH	2540-15 250 mm
WIDTH	According to the number of V-belts
PITCH	R8V
TENSION MEMBER	Polyester
FEATURES	Oil and heat resistant, static dissipating



MEGALINEAR	
SUPPLIED AS	Open-ended roll - Joined - PPJ
LENGTH	MEGALINEAR 0.5-100 m
STANDARD WIDTH	Up to 150 mm (200 mm on select pitches*)
PITCH	T10, AT5, AT10, AT20
TENSION MEMBER	Steel, HP, HF, HPF, Stainless Steel, Kevlar®
FEATURES	Wear resistance, strong, long life, can be joined to any length
* MEGALINEAR WIDE: T5, T10 H.	



ACCU-LINK®	
SUPPLIED AS	Rolls
LENGTH	7 - 30 m
SECTIONS	Z/3L, A/4L, B/5L, C
FABRIC	Multi-layer woven polyester
FEATURES	Fast and easy installation; durability; any length possible

SPECIAL COVERS

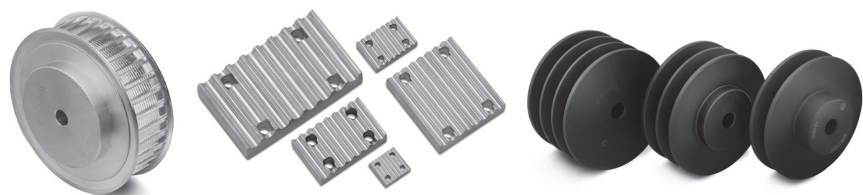
AVAFC 60/70/85	
	
MATERIAL	Polyurethane
COLOUR	Transparent
Excellent cut and wear resistance and good oil resistance.	

DURATAQ™	
	
MATERIAL	Natural Rubber
COLOUR	Orange/Red
Cover offers a proprietary custom blended rubber which has a good CoF and very good abrasion resistance.	

SUPERGRIP PETROL	
	
MATERIAL	PVC
COLOUR	Petrol Green
High CoF, applicable for slight height compensation, low shock absorption capabilities. Improved adhesion even in case of moisture and dirt.	

METAL DRIVE COMPONENTS

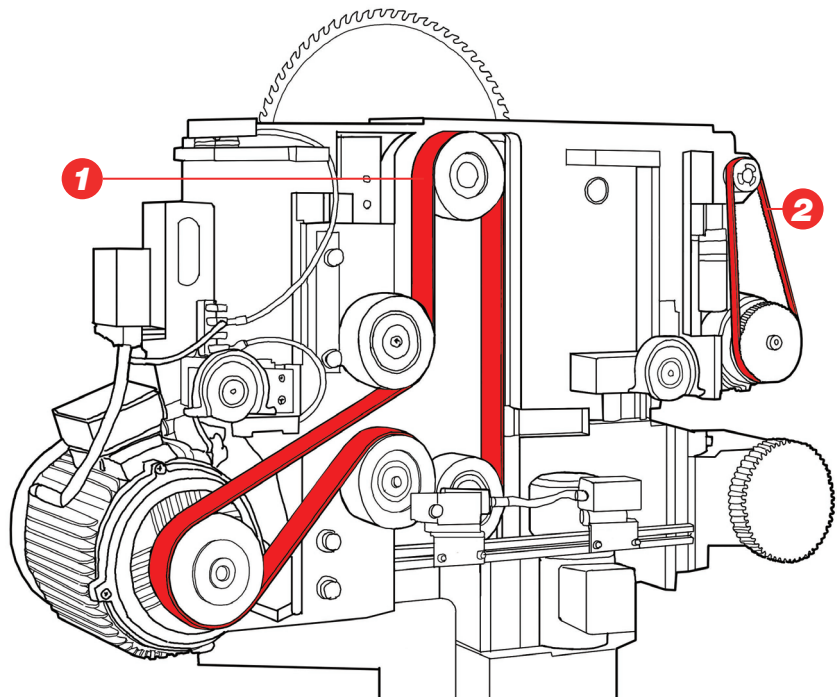
Use an extensive range of pulleys and accessories like timing bars, flanges, clamping plates, couplings to design a complete drive transmission system.



SAWING

After trees are harvested from the forest or the farm they are cut into shorter, more manageable lengths for further processing. The sawing environment, whether in the field or mill, is one of dust, dirt and lot of vibration.

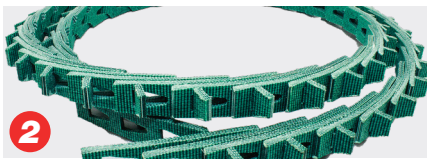
Power Transmission belts used to drive the saw must be strong, rigid and wear resistant. Megadyne offers a wide range of high strength belt options in single V, banded V and link V constructions.



UNIMATCH BANDED

Banded version of V-belts for high loads applications.

- Dimensional stability, smooth operation
- Oil resistant
- Antistatic



ACCU-LINK®

Link-belt, created and developed as an alternative to classical rubber V-belts, made with a polyurethane elastomer reinforced by a multi-layer woven polyester fabric.

- Easy belt assembly
- Available in sections A, B, C
- Low vibration level



MEGASYNC™ TITANIUM

Top of the line rubber timing belts, with superior power and torque drives capacity, even in the most extreme operating conditions (TTM8, TTM14).

- Designed for use in a typical chain driven drive applications
- Compact drive package
- High stability and resistance
- Long life cycles, cost-efficiency



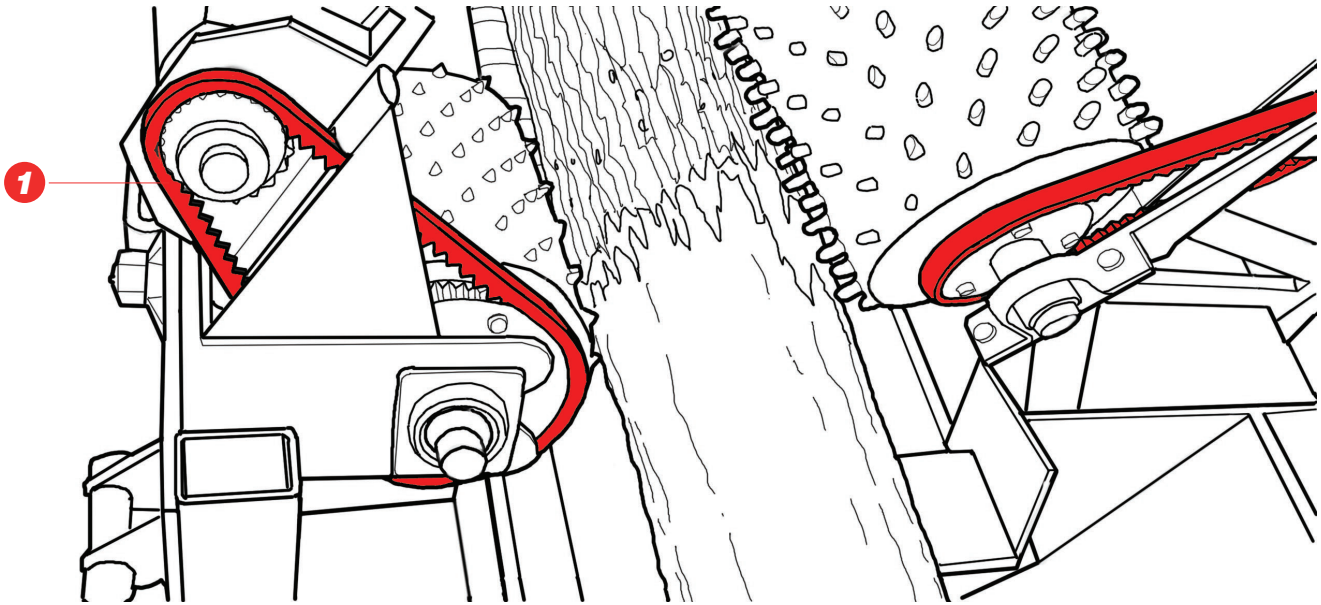
UNIMATCH CLASSICAL

The new generation of raw edge V-belts with narrow cross-section and raw edge construction, based on a new EPDM rubber compound.

- Resistant to chemical aggressive environments, ageing, ozone, UV and heat

DEBARKING

After the tree is cut into manageable lengths, the tree is debarked. This process prepares bare wood for later processing into chips or veneer. Like Sawing, drive vibration is common along with dust and dirt. Contamination between the belt and pulley can affect belt life expectancy as belts tend to want to roll over. Additionally, drive shock loads are common in this area and can also lead to belt breakage and shortened belt life.



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UNIMATCH CLASSICAL

Top of the line in rubber wrapped V-belts; extremely wide horsepower ranges.

- Oil and heat resistant
- Long service life
- Low maintenance costs



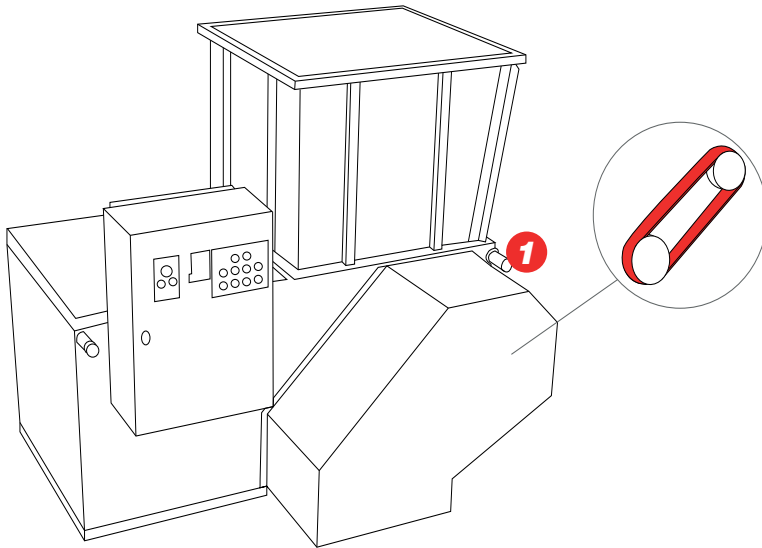
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WOOD SHREDDERS

Wood shredders are machines used for reducing wood into smaller woodchips; they come in many different types and sizes.



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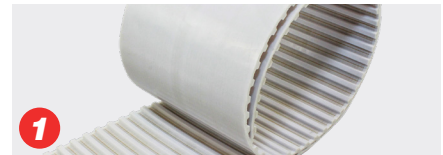
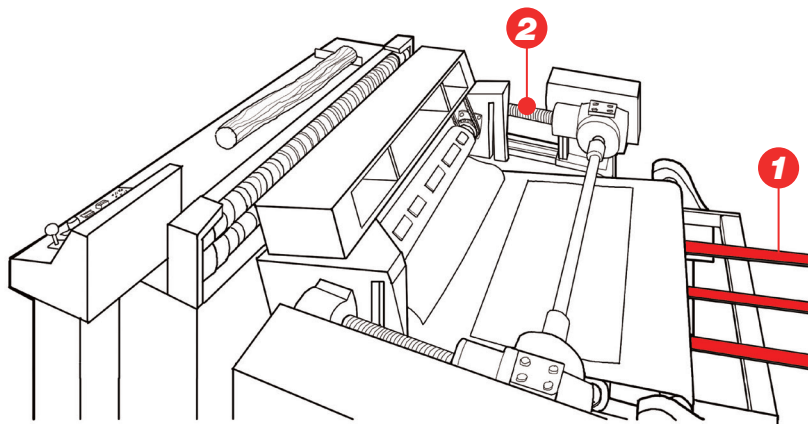
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VENEER SCARFING & EXIT TRANSFER

Another by-product of the debarked log is veneer. Veneer for use in lamination of MDF (Medium Density Fiberboard) board or Veneer used in the construction of plywood. After bark is removed from the log, the clean log is moved to a veneer scarfing line. In this case the log is gripped on both ends and turned at a very high speed against a very sharp scarfing blade. Various gauges of veneer can be scarfed; all depending on the finished material needed.



MEGALINEAR

Thermoplastic PU 92 ShA belts and S & Z parallel cord. Supplied as open length rolls or as endless joined belts; available in various tooth profiles and cords.

- Customized with co-extruded or laminated covers
- Extra grip and wear resistance
- High flexibility



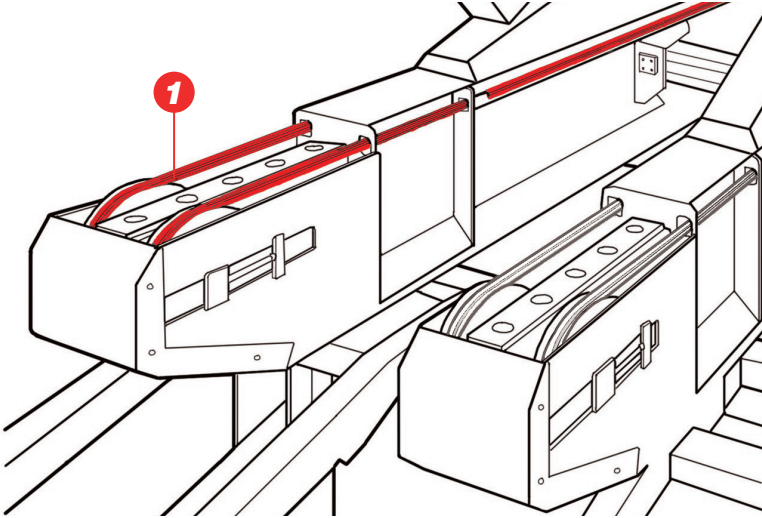
MEGADYNE MEGASYNC™

Rubber endless timing belts made of high-quality rubber compounds and spiral fiberglass tension members.

- High power rating
- Reduced width and compact pulleys

VENEER STACKER

The Scarfed veneer is taken from the exit transport conveyor and stacked into piles for later use.



MEGALINEAR

Thermoplastic PU 92 ShA belts with S & Z parallel cords (AT10 with welded K17 guides or square profile centered on convey side of belt).

- High precision linear positioning

PLYWOOD LAYUP & PRESSING

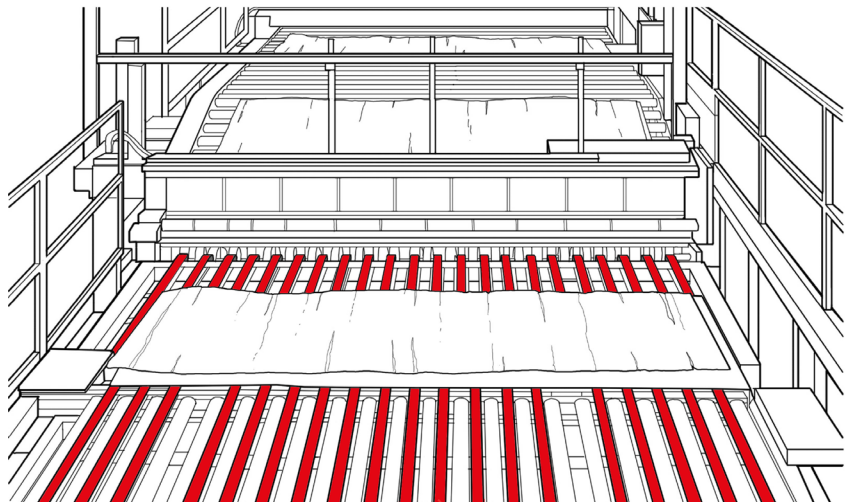
For plywood construction, individual sheets of veneer are selected from the stacking pile, glued and pressed to achieve the desired dimensional solid panel. MEGALINEAR timing belts are used move veneer from veneer stacking to the press and again at press exit.



MEGALINEAR

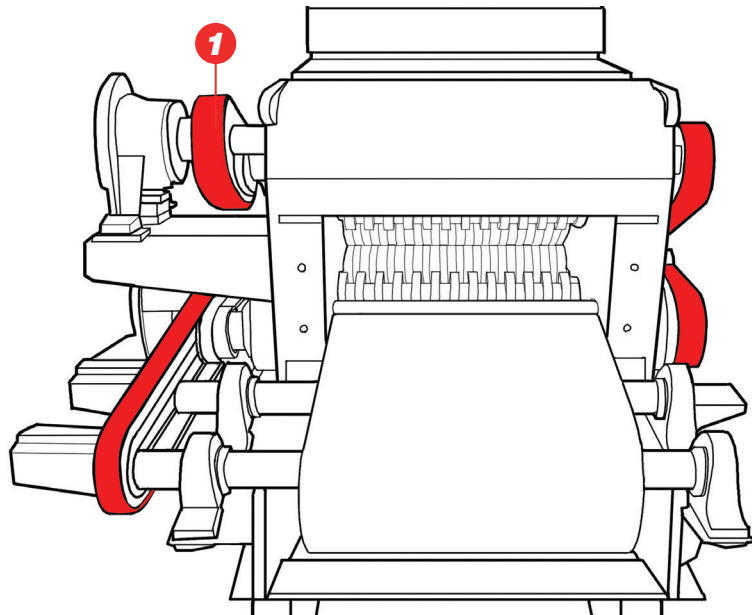
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CHIPPING & MDF PREPARATION

The chipper is the first step in the manufacture of engineered board like MDF (medium density fiberboard). After the logs are debarked they are fed to a chipper where they are converted into small pieces of wood. Next is chip washing, drying and processing. Processing includes a mixture of glues, waxes and adhesives which creates a pulp like mix. This mix is then deposited onto a series of conveyor belts which ultimately are used to create the necessary matt of material to be delivered to the press.



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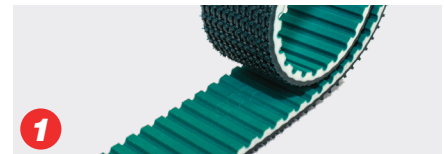
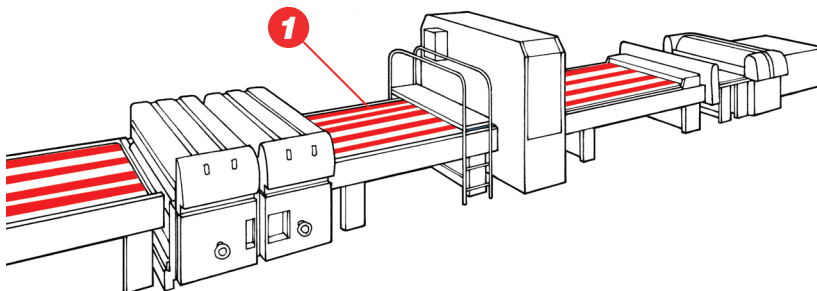
UNIMATCH BANDED

Banded version of V-belts for high loads applications.

- Dimensional stability, smooth operation
- Oil resistant
- Antistatic

PRESS EXIT, TRIMMING & INSPECTION

After plywood panels are pressed and MDF boards are formed, timing belts are commonly used to move the wide panels to trimming and final inspection.



MEGALINEAR

Thermoplastic PU 92 ShA belts with S & Z parallel cords. Supplied as open length rolls or as endless joined belts; available in various tooth profiles and cords.

- Customized with co-extruded or laminated covers
- Extra grip
- Wear resistance
- High flexibility
- Maintenance free



CASE STUDY

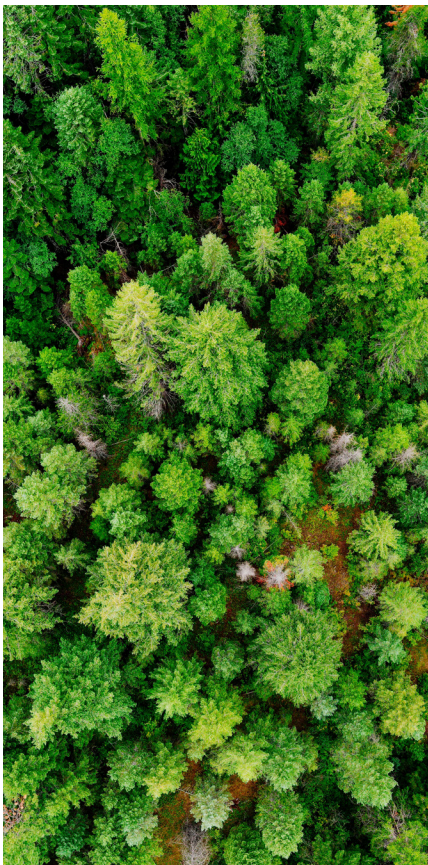
APPLICATION: Wood Panel Conveyor

PREVIOUS BELT: Wide non-synchronous conveyor belt

PREVIOUS BELT PROBLEMS: Wide boards would skew as the boards were being moved into edge trimming

MEGADYNE SOLUTION: MEGALINEAR AT10 WITH NFT

Megadyne MEGALINEAR AT10 with NFT, moving in a precision indexed fashion eliminated skewing. Additionally the load of the boards spread across 4 MEGALINEAR belts enabled the use of PPJ for easy belt installation and belt replacement.



ABOUT SUSTAINABILITY

Sustainability has always been a guiding principle for Ammega and all members of Ammega Group. We are proud to work with EcoVadis to monitor and evaluate our environmental, social and ethical performance.

At Megadyne, we are committed to becoming more and more responsible towards the world by reducing our impact on the planet. We work on new technological raw materials made by partners using the most ecological sustainable technologies. Our team has been working on the continuous improvement of products, services, and solutions for the benefit of society and the environment. Our vision is to be the local partner of choice for sustainable belting solutions around the globe.

Important sustainability achievements include improvements throughout the supply chain and in tracking our carbon footprint as well as the launch of new sustainable solutions for our clients. Major steps forward on sustainable investments are slowly bringing us closer to goals set in the Paris Agreement. We are on a journey towards a sustainable future, continually revising our plans and raising the level of our ambitions wherever possible. Our business performance and successes are key factors in defining our impact on the economic, social, and natural environment. We take the responsibility for this impact for all stakeholders and make every endeavour strengthen our roles as conscientious corporate citizens.

NOTES

NOTES

Discover Your Local Contacts

The local partner of choice
for sustainable power transmission belting solutions
around the globe.



General contact information:

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Italy

Scan the QR code
and find your local
contact

megadynegroup.com

